



Kathir College of Engineering

[An institution run by Lamika Educational and Charitable Trust]

Approved by AICTE, New Delhi | affiliated to Anna University | accredited by "NAAC"

"Wisdom Tree", Avinashi Road, Neelambur, Coimbatore 641062

Phone: 0422-2203787, 2203778 | Fax: 08030723600 | Email: kathirce@gmail.com | Web: www.kathir.ac.in

1.2.2 Number of Add on /Certificate programs offered during the 2016-2017 year.

Course No.	Program Details	Page No
1.	R Programming	1-9
2.	Algorithm and Analysis	10-19
3.	Implementation of Data Structures using C Programming	20-29
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9.	PCB Fabrication and Designing	76-85
10.	SAE Dismantling & Assembling Workshop	86-96
11.	Advanced Manufacturing System	97-107
12.	Structures and Bonding of Organic Chemistry	108-123
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14.	Data Analysis And Data Presentation	136-147



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"Wisdom Tree", Avinashi Road, Neelambur, Coimbatore 641062

Date: 06.09.2016

Circular

Sub : Certificate Program - R Programming


The Department of Computer Science and Engineering is planned to conduct a certification course on **R Programming** for the benefit of IV CSE students. This course resource person is Mr.Sukumar Chinnusamy, Jayalakshmi Institute of Technology, Dharmapuri, and it is scheduled from 19.09.2016 to 23.09.2016 for 30 hours. The timings are 9 am – 12.30 pm & 1.30 pm - 4.30 pm.

All students must attend all classes without fail. The following faculty members are assigned to handle the course

S. No	Name of the Faculty	Designation
1	Ms.S.Rajaambika	Assistant Professor
2	Mr.R.Balasubramaniam	Assistant Professor

Students who are completed the course successfully with good score will get the course completion certificate from the Institute/Department.


Course Coordinator


IQAC Coordinator


HoD/CSE


Principal



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WISDOM TREE MANAGEMENT COLLEGE

COIMBATORE

Department of Computer Science and
Engineering

ADD-ON Course
on
R-PROGRAMMING

RESOURCE PERSON:

MR. S. SUKUMAR CHINNUSAMY,

PROFESSOR,

JAYALAKSHMI INSTITUTE OF TECHNOLOGY

COIMBATORE-636352



Dr. R. UDAIYAKUMAR, ME., Ph.D.,
Principal

Kathir College of Engineering
"Wisdom Tree" Avinashi Road,
Nellambur, Coimbatore - 641 062.

23 SEPTEMBER

VENUE: IIT BOMBAY HALL

Time: 9.30 AM to 12.30 PM & 1.30 PM to 4.30 PM



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DEPARTMENT OF COMPUTER SCIENCE AND ENGINEERING

Course Syllabus

Name of the Course	: R Programming
Course Code	: K16A103
Course Coordinator	: Ms.S.Rajaambika, AP/CSE and Mr.R.Balasubramaniam, AP/CSE
Total Hours	: 30hrs
Academic Year	: 2016-2017

Objective:

- Apply OOP concepts in R programming.
- Explain the use of data structure and loop functions.
- Analyse data and generate reports based on the data.
- Apply various concepts to write programs in R.

Unit - I

Essential To R Programming

Introduction To The R Language - Programming Statistical Graphics - Programming With R - Simulation – Computational Linear Algebra – Numerical Optimization

Unit - II

Data Manipulation Techniques Using R Programming

Data In R – Reading and Writing Data – R and Databases – Dates – Factors – Subscribing – Character Manipulation – Data Aggregation – Reshaping Data

Unit - III

Statistical Applications using R Programming

Basics – The R Environment – Probability and Distributions – Descriptive Statistics and Graphics – One and Two – sample Tests – Regression and Correlation – Analysis of Variance and The Krushkal – Wallis Test – Tabular Data – Logistic Regression

Course outcomes

- Explain the use of data structure and loop functions
- Analyse data and generate reports based on the data
- Apply various concepts to write programs in R

References:

1. Hadley Wickham and Garrett Gorlemund, "R for Data Science", 1st Edition, O'Reilly Publications.
2. Tilman M.Davies , "The Book of R", 1st Edition, No Starch Press, Inc.




Course Coordinator



IQAC Coordinator



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DEPARTMENT OF COMPUTER SCIENCE AND ENGINEERING

Attendance Sheet

Name of the Course : R Programming

Course Code : K16A103

Course Coordinator :Ms.S.Rajaambika, AP/CSE and Ms.K.Karthika, AP/CSE

Total Hours : 30hrs

Academic Year : 2016-2017

S.No	Reg no	Name of the student	19.09.2016	20.09.2016	21.09.2016	22.09.2016	23.09.2016	Revision & Test	Sign
1.	711613104001	ALEX WINS ROSARIO F	✓	✓	✓	✓	✓	✓	Alex
2.	711613104002	ARAVINTH E	✓	a	✓	✓	✓	✓	Arav
3.	711613104003	BIJITH K	✓	✓	✓	✓	✓	✓	Bi
4.	711613104004	DANIEL D	✓	✓	✓	✓	✓	✓	Daniel D.
5.	711613104005	DHARSINI A	✓	✓	✓	✓	✓	✓	D.A.
6.	711613104006	DHIVYA N	✓	✓	✓	✓	✓	✓	N-D
7.	711613104007	GOKHILA B	✓	✓	✓	✓	a	✓	Gokhila
8.	711613104008	HARISHMA N M	✓	✓	✓	✓	✓	✓	N.M Harish
9.	711613104009	HASINA M	✓	✓	✓	✓	✓	✓	Hasina
10.	711613104011	KARTHIKA M K	✓	a	✓	✓	✓	✓	Karthika
11.	711613104012	KEERTHANESHWARI M	✓	✓	✓	✓	✓	✓	Keerthani
12.	711613104013	KUMARESAN S	✓	✓	✓	✓	✓	✓	Kumaresan
13.	711613104014	LOGESHWARI T	✓	✓	✓	✓	✓	✓	Logesh
14.	711613104016	MADHUMITHA H	✓	✓	✓	✓	✓	✓	Madhu
15.	711613104017	MANISHA D	✓	✓	✓	✓	✓	✓	Manisha
16.	711613104018	MANORANJANI S	✓	✓	✓	a	✓	✓	Manoranjani

17.	711613104019	MATHULA T	✓	✓	✓	✓	✓	✓	Mathula
18.	711613104020	RANJITH N L	✓	✓	✓	✓	✓	✓	Ranjith
19.	711613104021	NAGAVALLI M	✓	✓	✓	✓	✓	✓	Nagavalli
20.	711613104022	NARMADHA I S	✓	✓	✓	✓	✓	✓	Narmadha
21.	711613104023	NAVEEN KUMAR M	✓	✓	✓	✓	✓	✓	Naveen
22.	711613104024	NITHYANANTHAN R	✓	✓	✓	✓	✓	✓	Nithya
23.	711613104025	NIVETHA L	✓	✓	✓	✓	✓	✓	Nivetha
24.	711613104027	PAVITHIRA T	✓	✓	✓	✓	✓	✓	Pavithra
25.	711613104028	PRASANTH G	✓	✓	✓	✓	✓	✓	Prasanth
26.	711613104029	PRATHAPKANNAN M	✓	✓	✓	✓	✓	✓	Prathap
27.	711613104030	PREM KUMAR K	✓	✓	✓	✓	✓	✓	Prem
28.	711613104031	PRIYADARSHINI R	✓	✓	✓	✓	✓	✓	Priya
29.	711613104032	RIYAZ I	✓	✓	✓	✓	✓	✓	Riyaz
30.	711613104033	SANTHIYA T	✓	✓	✓	✓	✓	✓	Santhiya
31.	711613104034	SARANYA K	✓	✓	✓	✓	✓	✓	Saranya
32.	711613104036	SARAVANAN D	✓	✓	✓	✓	✓	✓	Saravanan
33.	711613104037	SATHIYAPRIYA M	✓	✓	✓	✓	✓	✓	Sathiya
34.	711613104038	SHARRUMATHI S	✓	✓	✓	✓	✓	✓	Sharrumathi
35.	711613104040	VIJAYALAKSHMI R	✓	✓	✓	✓	✓	✓	Vijayalakshmi
36.	711613104041	VIKNESH V	✓	✓	✓	✓	✓	✓	Viknesh
37.	711613104301	BALAJI R	✓	✓	✓	✓	✓	✓	Balaji
38.	711613104302	LAKSHMAKARTHI A	✓	✓	✓	✓	✓	✓	Lakshmakarthi
39.	711613104303	RAVI KUMAR K	✓	✓	✓	✓	✓	✓	Ravi
40.	711613104304	SARANYA V	✓	✓	✓	✓	✓	✓	Saranya
41.	711613104305	SUGUMARAN S	✓	✓	✓	✓	✓	✓	Suguman

[Signature]
Course Coordinator



[Signature]
HoD/CSE

[Signature]
Principal

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COIMBATORE 52



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Department of Computer Science and Engineering

One Page Report

Name of the Course : R Programming

Academic Year: 2016-2017

Course Code : K16A103

The Department of Computer Science and Engineering organized a five-day R programming add-on course from September 19 to September 23, 2016. The course was attended by a total of 41 students.


This course on R programming was organised by Ms. S. Rajaambika, AP/CSE, and Mr. R. Balasubramaniam, AP/CSE, the course coordinators. Each topic will also include a few practice problems, followed by conversations to help students comprehend the material. Throughout this course, they will be provided the tools they need to write code and solve straightforward coding issues, as well as extensive teaching. The students take part actively and received certificates.

Course Coordinator

HoD/CSE

Principal




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—●—
CERTIFICATE OF COMPLETION
—●—

This is to certify that **SARAVANAN D** of IV year successfully completed the
add-on course in **R Programming** conducted by the Department of
Computer Science and Engineering in the academic year 2016-2017 during
19.09.2016 to 23.09.2016.

Course Co-ordinator

HoD



Principal

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CERTIFICATE OF COMPLETION

This is to certify that **KEERTHANESHWARI M** of IV year successfully completed the add-on course in **R Programming** conducted by the Department of Computer Science and Engineering in the academic year 2016-2017 during 19.09.2016 to 23.09.2016.

Course Co-ordinator

HoD



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Date: 06.09.2016

Circular

Sub : Certificate Program - Algorithm and Analysis

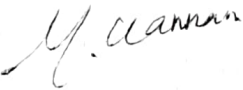
All the students of III CSE are hereby inform that the "Algorithm and Analysis" classes will be conducted 11.02.2017 to 15.02.2017 from 9.00am - 12.30pm to 1.30pm – 4.30 pm. The course will be organized and delivered by Mr.Karthikeyan Muthusamy, VSA Group of Institutions, Salem.

Add-on course will be conducted at free of cost and based on the performance of the participated students, the certificate will be issued after the successful completion of the course.


Students who are willing to attend the below mentioned course can enroll their names to the course coordinator.

Name of the Add-on Course	Course Coordinator
Algorithm and Analysis	Mr. T.K.P. Rajagopal, AP/CSE and Ms.V.Swathy, AP/CSE



Course Coordinator


IQAC Coordinator


HoD/CSE


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Wisdom Tree, Neelambur, Avinashi Road,

Coimbatore-62

ADD-ON COURSE ON

ALGORITHM AND ANALYSIS

Organised by

Department of Computer Science and Engineering



A handwritten signature in blue ink, appearing to read 'RUB'.

Dr. R. UDAIYAKUMAR, ME., Ph.D.,
Principal

Kathir College of Engineering
"Wisdom Tree" Avinashi Road,
Neelambur, Coimbatore - 641 062.

RESOURCE PERSON

Mr.K. Karthikeyan Muthusamy
Professor,
VSA Group of Institutions,
Salem-636010.


Venue:
Seminar Hall

Date and Time:

DATE: 11.02.2017 TO 15.02.2017

9.30 AM to 1.30PM & 12.30 PM to 4.30 Pm




Dr. R. UDAIYAKUMAR, ME., Ph.D.,
Principal
Kathir College of Engineering
"Wisdom Tree" Avinashi Road,
Neelambur, Coimbatore - 641 062.



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DEPARTMENT OF COMPUTER SCIENCE AND ENGINEERING

Course Syllabus

Name of the Course	: Algorithm and Analysis
Course Code	: K16A102
Course Coordinator	: Mr.T.K.P Rajagopal, AP/CSE and Ms.V.Swathy, AP/CSE
Total Hours	: 30hrs
Academic Year	: 2016-2017

Objective:

- To understand and apply the algorithm analysis techniques on searching and sorting algorithms.
- To introduce the different algorithmic approaches for problem solving.
- To provide some theoretical grounding in terms of finding the lower bounds of algorithms and the NP-completeness

Unit - I

Introduction

Divide & Conquer - Convex Hull, Median Finding – Smarter Interval Scheduling, Master Theorem , Strassen's Algorithm – FFT – B-Trees – Van Emade Boas Trees – Amortization – Union – find – Amortized Analysis.

Unit - II

Randomization

Randomization - Matrix, Multiply, Quicksort –Randomized Median – Skip Lists – Universal & Perfect Hashing

Unit - III

Dynamic Programming

Dynamic Programming – Augmentation – Range Trees –Advanced DP – All Pairs Shortest Paths – Greedy Algorithm – Minimum Spanning Tree.

Course outcomes

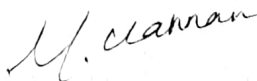
- List and describe various algorithmic approaches .
- Solve problems using divide and conquer, greedy, dynamic programming and backtracking approaches.
- Apply graph search algorithms to real world problems.

References:

1. Horowitz E. Sahani S: "Fundamentals of Computer Algorithms", 2ndEdition, Galgotia Publications, 2008.
2. S. Sridhar, "Design and Analysis of Algorithms", Oxford University Press.




Course Coordinator



IQAC Coordinator



HoD/CSE



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Department of Computer Science and Engineering

Attendance Sheet

Name of the Course : Algorithm and Analysis

Course Code : K16A102

Course Coordinator : Mr.T.K.P.Rajagopal, AP/CSE and Ms.V.Swathy, AP/CSE

Total Hours : 30hrs

Academic Year : 2016-2017

S.No	Reg no	Name of the student	11.02.2017	12.02.2017	13.02.2017	14.02.2017	15.02.2017	Revision & Test	Sign
1	711614104001	ABHILASH U	✓	✓	✓	✓	✓	✓	<i>[Signature]</i>
2	711614104002	BHUVANESWARI M	✓	✓	a	✓	✓	✓	<i>[Signature]</i>
3	711614104003	DEEPAK SURYA S	✓	✓	✓	✓	✓	✓	<i>[Signature]</i>
4	711614104004	DILIBAN M	✓	✓	a	✓	✓	✓	<i>[Signature]</i>
5	711614104005	GIRISH M	✓	✓	✓	✓	✓	✓	<i>[Signature]</i>
6	711614104006	GOWRI SHANKAR V	✓	✓	✓	✓	✓	✓	<i>[Signature]</i>
7	711614104007	HELEN MARGARET F	✓	✓	✓	✓	✓	✓	<i>[Signature]</i>
8	711614104008	JAIDHEEP D	✓	✓	✓	✓	✓	✓	<i>[Signature]</i>
9	711614104010	JAYA KUMAR R R	✓	✓	✓	✓	✓	✓	<i>[Signature]</i>
10	711614104011	MALAR VIZHI S	✓	✓	✓	✓	✓	✓	<i>[Signature]</i>
11	711614104012	MURALI D	✓	✓	a	✓	✓	✓	<i>[Signature]</i>
12	711614104013	NAVIN BABU V V	✓	✓	✓	a	✓	✓	<i>[Signature]</i>

13	711614104014	PIRAIMATHI T	✓	✓	✓	a	✓	✓	Piraimathi
14	711614104015	POORNIMA R	✓	a	✓	✓	a	✓	Poornima
15	711614104017	RISHWANA BEGUM S	✓	✓	a	✓	✓	✓	Rishwana
16	711614104018	SARAVANAMUTHU P	a	✓	✓	✓	✓	✓	Saravanamuthu P
17	711614104019	SARUMATHI K	✓	✓	a	✓	✓	✓	Sarumathi K
18	711614104020	SATHISH KUMAR S	✓	✓	✓	✓	✓	✓	Sathish Kumar S
19	711614104021	SHARMILA K	✓	✓	✓	✓	✓	✓	Sharmila K
20	711614104022	SHIBIN KUMAR B	✓	✓	✓	✓	✓	✓	Shibin Kumar B
21	711614104023	SOWMIYA K	✓	✓	✓	✓	✓	✓	Sowmiya K
22	711614104024	SRI HARI PRASAD V	✓	✓	✓	✓	✓	✓	SRI HARI PRASAD V
23	711614104025	SUNDER V	✓	✓	✓	a	✓	✓	Sunder V
24	711614104026	VIGNESH K	✓	✓	✓	✓	✓	✓	Vignesh K
25	711614104027	VIJAY B	✓	✓	✓	✓	✓	✓	Vijay B
26	711614104028	VINOTH KUMAR S	✓	✓	✓	✓	✓	a	Vinoth Kumar S
27	711614104301	GOPINATH S	✓	✓	✓	✓	✓	✓	Gopinath S
28	711614104302	MOHAN KUMAR D	✓	✓	✓	✓	a	✓	Mohan Kumar D
29	711614104303	MURUGESH R	✓	✓	a	✓	✓	✓	Muruges R
30	711614104304	PRICILLA P	✓	✓	✓	✓	✓	✓	Pricilla P
31	711615104014	HARSHINI B	✓	✓	✓	a	✓	✓	Harshini B



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Course Coordinator


HoD/CSE


Principal



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Department of Computer Science and Engineering

One Page Report

Name of the Course : Algorithm and Analysis

Academic Year: 2016-2017


Course Code : K16A102

The Department of Computer Science and Engineering organized five day "**Algorithm and Analysis**" add-on course from February 11 to February 15, 2017. The course was attended by a total of 31 students.

This course on Algorithm and Analysis was organised by Mr. T.K.P. Rajagopal AP/CSE, and Mr. V.Swathy, AP/CSE, the course coordinators. Each topic will also include a few practice problems, followed by conversations to help students comprehend the material. Students will able to build different algorithmic approaches for problem solving techniques.


Course Coordinator


HoD/CSE


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CERTIFICATE OF COMPLETION

This is to certify that **GIRISH M** of III year successfully completed the add-on course in **Algorithm and Analysis** conducted by the Department of Computer Science and Engineering in the academic year 2016-2017 during 11.02.2017 to 15.02.2017.

Course Co-ordinator

HoD

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CERTIFICATE OF COMPLETION


This is to certify that **VIGNESH K** of III year successfully completed the add-on course in **Algorithm and Analysis** conducted by the Department of Computer Science and Engineering in the academic year 2016-2017 during 11.02.2017 to 15.02.2017.


Course Co-ordinator


HoD


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Date: 06.10.2016

Circular

Sub : Certificate Program - Implementation of Data Structures using C Programming

As per direction, it is inform to all B.E II CSE that a add-on course programme will be conducted in our college. The certificate program is "Implementation of Data Structures using C Programming" will be delivered by Kiruthiga Duraipandy, AsP/CSE, Dhanalakshmi Srinivasan Engineering College, Chennai. Interested participants may register their names in advance with the course coordinator. The details of training topics are enclosed here with.

Name of the Add-on Course	Course Coordinator
Implementation of Data Structures using C Programming	Ms.V.Sharmila AP/CSE and Ms.S.Priyanka AP/CSE
Commencement of Course from 24.10.2016 to 28.10.2016 Time : 9 am – 12.30 pm & 1.30 pm - 4.30 pm	

V. Anire
Course Coordinator

M. Kannan
IQAC Coordinator

[Signature]
HoD/CSE

[Signature]
Principal



[Signature]
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Department of Computer Science and Engineering

ADD-ON COURSE

IMPLEMENTATION OF DATA STRUCTURES USING PYTHON



A handwritten signature in green ink, appearing to be 'R. Udaiyakumar'.

Dr. R. UDAIYAKUMAR, ME., Ph.D.,
Principal
Kathir College of Engineering
"Wisdom Tree" Avinashi Road,
Neelambur, Coimbatore - 641 062.

RESOURCE PERSON

Mr.R. Kiruthiga Duraipandy
Professor,
Dhanalakshmi Srinivasan Engineering College,
Trichy.

Venue:
Seminar Hall

Date and Time:

DATE: 24.10.2016 TO 28.10.2016

9.30 AM to 1.30PM & 12.30 PM to 4.30 Pm




Dr. R. UDAIYAKUMAR, ME., Ph.D.,
Principal
Kathir College of Engineering
"Wisdom Tree" Avinashi Road,
Neelambur, Coimbatore - 641 002.



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DEPARTMENT OF COMPUTER SCIENCE AND ENGINEERING

Course Syllabus

- Name of the Course** : Implementation of Data Structures using C Programming
- Course Code** : K16A101
- Course Coordinator** : Ms.V.Sharmila, AP/CSE and Ms.S.Priyanka, AP/CSE
- Total Hours** : 30hrs
- Academic Year** : 2016-2017

Objective:

- To understand the concepts of ADTs
- To learn linear data structures – lists, stacks, and queues
- To understand sorting, searching and hashing algorithms
- To apply Tree and Graph structures

Unit - I

Introduction to data structures

Introduction to data structures: storage structure for arrays, sparse matrices, Stacks and Queues: representation and application. Linked lists: Single linked lists, linked list representation of stacks and Queues. Operations on polynomials, Double linked list,

Unit - II

Trees

Dynamic storage management-garbage collection and compaction, infix to post fix conversion, postfix expression evaluation. Trees: Tree terminology, Binary tree, Binarysearch tree, General tree, B+ tree, AVL Tree, Complete Binary Tree representation, Tree traversals, operation on Binary tree-expression Manipulation.

Graphs: Graph terminology, Representation of graphs, path matrix, BFS (breadth first search), DFS (depth first search), topological sorting, Warshall's algorithm (shortest path algorithm.) Sorting and Searching techniques – Bubble sort, selection sort, Insertion sort, Quick sort, merge sort, Heap sort, Radix sort. Linear and binary search methods, Hashing techniques and hash functions.

Course outcomes

At the end of the course, the students should be able to:

- Implement abstract data types for linear data structures.
- Apply the different linear and non-linear data structures to problem solutions.
- Critically analyze the various sorting algorithms.

References:

1. Thomas H. Cormen, Charles E. Leiserson, Ronald L. Rivest, Clifford Stein, – Introduction to Algorithms", Second Edition, Mcgraw Hill, 2002.
2. Aho, Hopcroft and Ullman, –Data Structures and Algorithms , Pearson Education, 1983.
3. Stephen G. Kochan, –Programming in C , 3rd edition, Pearson Education.

V. Dhire

Course Coordinator

M. Kannan

IQAC Coordinator

R. B.

HOD/CSE



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Department of Computer Science and Engineering

Attendance Sheet

Name of the Course : Implementation of Data Structures using C Programming

Course Code : K16A101

Course Coordinator :Ms.V.Sharmila, AP/CSE and Ms.S.Priyanka, AP/CSE

Total Hours : 30hrs

Academic Year : 2016-2017

S. No	Reg no	Name of the student	24.10.2016	25.10.2016	26.10.2016	27.10.2016	28.10.2016	Revision & Test	Sign
1	711615104002	ALAGUMUTHU M	✓	✓	✓	✓	✓	✓	[Signature]
2	711615104003	ANANTHI PRIYA S	✓	✓	✓	✓	✓	✓	S. Ananthi Priya
3	711615104004	ARUN KUMAR K	✓	✓	✓	✓	✓	✓	[Signature]
4	711615104005	ASHWIN D	✓	✓	✓	✓	✓	✓	[Signature]
5	711615104006	BHUVANESWARI R	✓	✓	✓	✓	✓	✓	R. Bhuvaneshwari
6	711615104007	BUVANASUNDHARI P	✓	✓	✓	✓	✓	✓	Bhuvanashundhar P
7	711615104008	CHANDRA PRAKASH S	✓	✓	✓	✓	✓	✓	Chs
8	711615104009	DEVA ARASI S	✓	✓	✓	✓	✓	✓	Das
9	711615104013	GANESH M	✓	✓	✓	✓	✓	✓	[Signature]
10	711615104014	HARSHINI B	✓	✓	✓	✓	✓	✓	[Signature]
11	711615104016	JULIET MARY B	✓	✓	✓	✓	✓	✓	[Signature]

12	711615104017	KARTHICK RAJA S	✓	✓	✓	✓	✓	✓	✓	K.R.S.
13	711615104018	KEERTHI A	✓	✓	✓	✓	✓	✓	✓	Keerthi
14	711615104019	MADHAN KUMAR M	✓	✓	✓	✓	✓	✓	✓	Madhan
15	711615104020	MALATHI M	✓	✓	✓	✓	✓	✓	✓	Malathi
16	711615104021	MANJU PARKAVI N	a	✓	✓	✓	✓	✓	✓	Manju Parkavi
17	711615104023	MOHANAVANI S	✓	✓	✓	✓	✓	✓	✓	Mohanavani
18	711615104025	PUNITAVATHI D	✓	✓	a	✓	✓	✓	✓	Punitavathi
19	711615104026	RAMANI M	✓	✓	✓	✓	✓	✓	✓	Ramani
20	711615104027	RAVINA T	✓	✓	✓	✓	✓	✓	✓	Ravina
21	711615104028	RESHMA S	✓	✓	✓	✓	✓	✓	✓	Reshma
22	711615104029	SANGEETHA R	✓	✓	✓	✓	✓	✓	✓	Sangeetha
23	711615104030	SARAN E	✓	✓	✓	a	✓	✓	✓	Saran
24	711615104031	SATHEESH S	✓	✓	✓	✓	✓	✓	✓	Satheesh
25	711615104032	SHANMUGA PRIYA A	✓	✓	✓	✓	✓	✓	✓	Shanmuga Priya
26	711615104033	SHINU V	✓	✓	✓	✓	✓	✓	✓	Shinu
27	711615104034	SIVAKUMAR S	✓	✓	✓	✓	✓	✓	✓	Sivakumar
28	711615104036	SURENDAR M	✓	✓	✓	✓	✓	✓	✓	Surender
29	711615104037	VAISHNAVI D	a	✓	✓	✓	✓	✓	✓	Vaishnavi
30	711615104038	VENKATESH V	✓	✓	✓	✓	✓	✓	✓	Venkatesh
31	711615104039	VIKRAM G K	✓	✓	✓	✓	✓	✓	✓	Vikram
32	711615104041	YOGESHWARA N M	✓	✓	✓	✓	✓	✓	✓	Yogeshwara

V. Anire

Course Coordinator



HOD/CSE

Principal

Principal

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Department of Computer Science and Engineering

One Page Report

Academic Year : 2016-2017

Name of the Course : Implementation of Data Structures using C Programming

Course Code : K16A101

The Department of Computer Science and Engineering organized a five days add-on course on Implementation of Data Structures using C Programming from 24.10.2016 to 28.10.2016 Totally 32 students have attended the course.

The course coordinators Ms.V.Sharmila, AP/CSE and Ms.S.Priyanka, AP/CSE organized this session on the topic of "**Implementation of Data Structures using C Programming**". During this course, they will be well trained and empowered to develop coding and solve uncomplicated coding programs.

Course Coordinator

HoD/CSE

Principal



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Tree, Neelambur, Avinashi Road, Coimbatore-62

CERTIFICATE OF COMPLETION

This is to certify that **KEERTHI A** of II year successfully completed the add-on course in **Implementation of Data Structures using C programming** conducted by the Department of Computer Science and Engineering in the academic year 2016-2017 during 24.10.2016 to 28.10.2016.

V. Dhire

Course Co-ordinator

[Signature]

HoD

[Signature]

Principal



[Signature]
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Tree, Neelambur, Avinashi Road, Coimbatore-62

CERTIFICATE OF COMPLETION

This is to certify that **SIVAKUMAR S** of II year successfully completed the add-on course in **Implementation of Data Structures using C programming** conducted by the Department of Computer Science and Engineering in the academic year 2016-2017 during 24.10.2016 to 28.10.2016.

V. Dhire

Course Co-ordinator

[Signature]
HoD

[Signature]
Principal



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Wisdom Tree, Neelambur, Avinashi Road, Coimbatore-62

Date: 01.02.2017

To
The Principal
Kathir College of Engineering
Coimbatore – 641062

Respected Madam,

Sub : Add on course – Reg

We like to bring to your kind notice that we have planned to conduct the add on course on “Revit Architecture” for Final year Civil Engineering students from 06-02-2017 to 13-02-2017.

Name of the Course : Revit Architecture

Course Code : K16A201

Course Coordinator : Mr. R. Ramu

We request you to kindly permit us to conduct the above course and utilize the classroom and lab facilities.

Thanking you

Course Coordinator

HoD/CIVIL

Principal



Dr. R. UDAIYAKUMAR, ME., Ph.D.,
Principal
Kathir College of Engineering
“Wisdom Tree” Avinashi Road,
Neelambur, Coimbatore - 641 062.



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03.02.2017

Circular

Sub: Add on Course


The add-on Revit Architecture course for final-year civil engineering students is scheduled to be conducted by the Department of Civil Engineering. The add on course is designed and offered by our department for the benefit of the students. Students who are willing to attend the course can register their names to the course coordinator.

Name of the Add on Course	Course Coordinator
Revit Architecture	Mr. R. Ramu, AP/ CIVIL
Duration of Course from 06-02-2017 to 13-02-2017 Time : 1.00 pm – 6.00 pm	



Course Coordinator


IQAC Coordinator


HoD/ CIVIL


Principal




Dr. R. UDAIYAKUMAR, ME, Ph.D.,
Principal
Kathir College of Engineering
"Wisdom Tree" Avinashi Road,
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DEPARTMENT OF CIVIL ENGINEERING

Course Syllabus

Name of the Course : Revit Architecture

Course Code : K16A201

Course Coordinator : Mr. R. Ramu, AP/CIVIL

Total Hours : 30 hours

Academic Year : 2016-2017

Objective:

- To apply software tools for building planning and design.
- To gain knowledge in latest software in Civil Engineering.

Syllabus

Module 1

Introduction to Autodesk Revit Architecture, Starting an Architectural Project, Navigation Tools
Creating Architectural Walls, Using Basic Building Components- Editing Tools.

Module 2

Grouping Elements, Retrieving Information About Elements, Working with Datum Planes and
Creating Standard Views, Working with Levels, Working with Grids, Working with Reference
Planes and Work Planes, Controlling the Display of Elements, Working with Project Views

Module 3

Using Basic Building Components, Creating Floors, Creating Roofs, Shape Editing Tools, Creating
Ceilings, Adding Rooms, Using Basic Building Components-III, Working with Components,
Adding Stairs, Adding Railings and Ramps, Creating Curtain Walls

Module 4

Adding Site Features, Working With Site Features, Property Lines and Building Pads, Adding Site
Components, Using Massing Tools, Understanding Massing Concepts, Creating Massing Geometry
in the Family Editor, Creating Building Elements from Massing Geometry o Creating Families



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Module 5

Adding Annotations and Dimensions, Adding Tags, Dimensioning Terminology and Dimensioning Tools, Creating Project Details and Schedules, Creating Drawing Sheets, and Plotting, Creating Drawing Sheets, Creating Duplicate Dependent Views o Printing in Revit Architecture

Module 6

Creating 3D Views, Three Dimensional (3D) Views, Dynamically Viewing Models with Navigation Tools, Orienting a 3D View, Generating Perspective Views, Using a Section Box, Rendering Views and Creating Walkthroughs, Rendering in Revit Architecture, Working with Materials, Rendering

Course outcomes

At the end of course, student will be able to


1. Understand the concepts and features of Revit Architecture.
2. Utilize 3D design tools for real time building projects.
3. Complete object-oriented 3D/2D graphic model creation.
4. Create Walkthroughs and render images with modern materials.
5. Document a project with the basic concepts of building design.


Course Coordinator


IQAC Coordinator


HoD/ CIVIL




Dr. R. UDAIYAKUMAR, ME., Ph.D.,
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Attendance Sheet

Name of the Course : Revit Architecture

Course Code : K16A201

Course Coordinator : Mr. R. Ramu, AP/ CIVIL

Total Hours : 30 hours

Academic Year : 2016-17

S. No.	Reg. No.	Name of the student	5.2.17	7.2.17	8.2.17	9.2.17	10.2.17	11.2.17	13.12.17
1	711613103001	ABHINITH RAJ R	AP	AP	AP	AP	AP	AP	AP
2	711613103003	ALWIN JOSE U	AP	AP	AP	AP	AP	AP	AP
3	711613103004	ANAS RAYEEN MARAKKAR VEETILE A	AP	a	AP	AP	AP	AP	AP
4	711613103005	ANSON PAUL K	AP	AP	AP	AP	AP	AP	AP
5	711613103007	ARUN KUMAR G	AP	AP	AP	AP	AP	AP	AP
6	711613103008	ARUN KUMAR M	AP	AP	AP	AP	AP	AP	AP
7	711613103010	ARUN PRASATH C	AP	AP	AP	AP	AP	AP	AP
8	711613103011	ASHWIN R	AP	AP	AP	AP	AP	AP	AP
9	711613103013	AUGUSTINE DEVANAND S	AP	AP	AP	AP	AP	AP	AP
10	711613103014	BASKAR K	AP	AP	AP	AP	AP	AP	AP
11	711613103015	CHINNAIYAN T	AP	AP	AP	AP	AP	AP	AP
12	711613103016	DHANA SEKAR T	AP	AP	AP	AP	AP	AP	AP
13	711613103017	DHIVYAA M	AP	AP	AP	AP	AP	AP	AP
14	711613103018	DINESH M S	AP	AP	AP	AP	AP	AP	AP
15	711613103019	DINESH P	AP	AP	AP	AP	AP	AP	AP
16	711613103020	DINESH KUMAR K	AP	AP	AP	AP	AP	AP	AP
17	711613103021	DINESH KUMAR T	AP	AP	AP	AP	AP	AP	AP
18	711613103022	ELANGO M	AP	AP	AP	AP	AP	AP	AP
19	711613103023	ELAVARASAN C	AP	AP	AP	AP	AP	AP	AP
20	711613103025	GOWRI SHANKAR P	AP	AP	AP	AP	AP	AP	AP
21	711613103026	GOWTHAM A	AP	AP	AP	AP	AP	AP	AP
22	711613103027	HARIKRISHNAN K	AP	AP	AP	AP	AP	AP	AP
23	711613103028	HARIKRISHNAN S	AP	AP	AP	AP	AP	AP	AP
24	711613103029	HARINATH N	AP	AP	AP	AP	AP	AP	AP
25	711613103030	HARI PRAKASH N	AP	AP	AP	AP	AP	AP	AP
26	711613103031	HARISH R	AP	AP	AP	AP	AP	AP	AP
27	711613103032	HARSHIYA BEGUM H	AP	AP	AP	AP	AP	AP	AP
28	711613103033	HEMANTH KUMAR K	AP	AP	AP	AP	AP	AP	AP





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29	711613103034	JAISON R	J	J	J	J	J	J
30	711613103035	JAYARAJ A	R	R	R	R	R	R
31	711613103037	JAYASEELAN M	J	J	J	J	J	J
32	711613103038	JOTHIBASU A	J	J	J	J	J	J
33	711613103039	KALAIARASAN C	K	K	K	K	K	K
34	711613103040	KARTHIKEYAN N K	K	K	K	K	K	K
35	711613103041	KAVICHAKKARAVARTHY M	K	K	K	K	K	K
36	711613103042	KAVIN KUMAR S	K	K	K	K	K	K
37	711613103043	KIRUPAKARAN K	K	K	K	K	K	K
38	711613103044	KIRUTHIKA M	K	K	K	K	K	K
39	711613103045	KISHORKUMAR D	K	K	K	K	K	K
40	711613103046	LENIN PRABHU N	L	L	L	L	L	L
41	711613103047	MAGENDRAN R	M	M	M	M	M	M
42	711613103048	MAHALAKSHMI S	M	M	M	M	M	M
43	711613103049	MATHUMATHI P	M	M	M	M	M	M
44	711613103050	MEENA C	M	M	M	M	M	M
45	711613103051	MELKIASBELLORA C	M	M	M	M	M	M
46	711613103052	MOHAMED SHARIF M	M	M	M	M	M	M
47	711613103053	MURUGANANTHAM V	M	M	M	M	M	M
48	711613103054	MUTHU MALINI B	M	M	M	M	M	M
49	711613103055	MUTHU SURANDER B	M	M	M	M	M	M
50	711613103056	NANDHINI R	N	N	N	N	N	N
51	711613103057	NARMADHA R	N	N	N	N	N	N
52	711613103058	NATHIYA P	N	N	N	N	N	N
53	711613103059	NAVEEN B	N	N	N	N	N	N
54	711613103060	NAVEEN CHANDER K	N	N	N	N	N	N
55	711613103061	NAVEEN CHANDRAN N P	N	N	N	N	N	N
56	711613103062	NAVEEN KUMAR B	N	N	N	N	N	N
57	711613103063	NIVETHA M	N	N	N	N	N	N
58	711613103065	PAVITHRAN C	P	P	P	P	P	P
59	711613103066	PRADEEP P	P	P	P	P	P	P
60	711613103067	PRAKASH C	P	P	P	P	P	P
61	711613103068	PRAVEEN C	P	P	P	P	P	P
62	711613103069	PRAVEEN KUMAR G	P	P	P	P	P	P
63	711613103070	PREAM KUMAR D	P	P	P	P	P	P
64	711613103071	RAJKUMAR M	R	R	R	R	R	R
65	711613103072	RAJKUMAR V	R	R	R	R	R	R
66	711613103074	RANJITH KUMAR D	R	R	R	R	R	R
67	711613103076	RAVI KUMAR B	R	R	R	R	R	R





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68	711613103077	RITHESH KUMAR M	ri	ri	ri	ri	ri	ri	ri
69	711613103078	SABAREESH T	sa	sa	sa	sa	sa	sa	sa
70	711613103079	SANKAR GANESH P	sa	sa	sa	sa	sa	sa	sa
71	711613103081	SARANYA V	sa	sa	sa	sa	sa	sa	sa
72	711613103083	SARAVANAN S	sa	sa	sa	sa	sa	sa	sa
73	711613103084	SATHEESH A	sa	sa	sa	sa	sa	sa	sa
74	711613103085	SATHISH B	sa	sa	sa	sa	sa	sa	sa
75	711613103086	SATHISH P (1995-01-16)	sa	sa	sa	sa	sa	sa	sa
76	711613103087	SATHISH P (1996-03-14)	sa	sa	sa	sa	sa	sa	sa
77	711613103088	SHANTHOSH SRINIVAS S	sa	sa	sa	sa	sa	sa	sa
78	711613103089	SHARUMATHI J	sa	sa	sa	sa	sa	sa	sa
79	711613103090	SIVA R	si	si	si	si	si	si	si
80	711613103091	SIVA CHANDRAN K	si	si	si	si	si	si	si
81	711613103092	SOBIYA S	so	so	so	so	so	so	so
82	711613103093	SRINIVASAN R	sr	sr	sr	sr	sr	sr	sr
83	711613103094	SUDHAKAR S	su	su	su	su	su	su	su
84	711613103095	SUKUMAR S	su	su	su	su	su	su	su
85	711613103096	VAITHEESWARAN S	va	va	va	va	va	va	va
86	711613103098	VENKATESH R	ve	ve	ve	ve	ve	ve	ve
87	711613103100	VIJAY V	vi	vi	vi	vi	vi	vi	vi
88	711613103101	VINOTHINI C	vi	vi	vi	vi	vi	vi	vi
89	711613103301	BALAMURUGAN V	ba	ba	ba	ba	ba	ba	ba
90	711613103302	DEVIKA M	de	de	de	de	de	de	de
91	711613103303	GEO VARGHEESE A	ge	ge	ge	ge	ge	ge	ge
92	711613103304	NAGARAJAN G	na	na	na	na	na	na	na
93	711613103305	SUNDARA PANDIYAN UL	su	su	su	su	su	su	su
94	711613103306	VIJAY M	vi	vi	vi	vi	vi	vi	vi
95	711613103901	HARI BABU P T	har	har	har	har	har	har	har
96	711613103902	RAJARAM T	raja	raja	raja	raja	raja	raja	raja
97	711613103903	GOPINATH L	gopi	gopi	gopi	gopi	gopi	gopi	gopi
98	711613103905	MUTHUKUMAR N	muthu	muthu	muthu	muthu	muthu	muthu	muthu
99	711613103906	BALAJI V	balaji	balaji	balaji	balaji	balaji	balaji	balaji
100	711611103009	DHANABAL P	dhana	dhana	dhana	dhana	dhana	dhana	dhana
101	711612103016	GOVINDARAJ C	govin	govin	govin	govin	govin	govin	govin
102	711612103017	GOWTHAM T	govin	govin	govin	govin	govin	govin	govin
103	711612103046	SEDHUPATHI S	sedh	sedh	sedh	sedh	sedh	sedh	sedh

Course Coordinator

HoD/ CIVIL

Principal





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Department of Civil Engineering

One Page Report

Name of the Course : Revit Architecture

Academic Year : 2016-2017

Course Code : K16A201

Course Coordinator : Mr. R. Ramu, AP/CIVIL

The add-on course "Revit Architecture" offered to students as part of co-curricular activities included all the course materials indicated in the course curriculum. The course was conducted to familiarize the students to basics of Building planning and design. The fundamental concepts were also taught to the students in planning a building

The students were exposed to contemporary technologies for precisely resolving challenging engineering challenges. All the final year students actively participated in this add on course and performed well throughout the programme.

Course Coordinator

HoD/ CIVIL

Principal



Dr. R. UDAYAKUMAR, ME., Ph.D.,
Principal
Kathir College of Engineering
"Wisdom Tree" Avinashi Road,
Neelambur, Coimbatore - 641 062.



Kathir College of Engineering

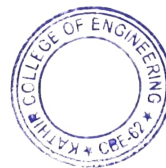
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— — — — —
CERTIFICATE OF COMPLETION
— — — — —

This is to certify that **DINESH P** of **IV** year successfully completed the add-on course **Revit Architecture** conducted by the **Department of Civil Engineering** in the academic year **2016-17** during **06-02-2017** to **13-02-2017**.


Course Co-ordinator


HoD






Principal



Kathir College of Engineering

[Approved by AICTE | Affiliated to Anna University | Accredited by NAAC] Wisdom
Tree, Neelambur, Avinashi Road, Coimbatore-62



CERTIFICATE OF COMPLETION



This is to certify that **NATHIYA P** of **IV** year successfully completed the add-on course **Revit Architecture** conducted by the **Department of Civil Engineering** in the academic year **2016-17** during **06-02-2017** to **13-02-2017**.


Course Co-ordinator


HoD





Principal



Kathir College of Engineering

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Wisdom Tree, Neelambur, Avinashi Road, Coimbatore-62

Date: 12.12.16

To

The Principal

Kathir College of Engineering

Coimbatore – 641062

Respected Madam,

Sub: Add on course – Reg

We would like to bring to your attention that from 19.12.16 to 24.12.16, we have planned to offer a special add-on course for Third-year civil engineering students on "Geographic Information System."

Name of the Course: Geographical Information System

Course Code : K16A202


Course Coordinator: Ms. Priyanka R

We respectfully ask for your permission to use the lab and classroom space for the course.


Thanking you


Course Coordinator


HoD/CIVIL


Principal




Dr. R. UDAIYAKUMAR, ME., Ph.D.,
Principal
Kathir College of Engineering
"Wisdom Tree" Avinashi Road,
Neelambur, Coimbatore - 641 062,



Kathir College of Engineering

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Wisdom Tree, Neelambur, Avinashi Road, Coimbatore-62

15.12.2016

Circular

Sub: Add on Course

The Department of Civil Engineering has planned to conduct the add-on course on Geographic Information System for third-year civil engineering students. Students who are interested in taking the course can submit their names to the course coordinator. The details of the course are given below.

Name of the Add on Course	Course Coordinator
Geographic Information System	Ms. R. Priyanka, AP/ CIVIL
Duration of Course from 19-12-2016 to 24-12-2016 Time : 1.00 pm – 6.00 pm	



Course Coordinator


IQAC Coordinator


HoD/ CIVIL


Principal




Dr. R. UDAIYAKUMAR, ME., Ph.D.,
Principal
Kathir College of Engineering
"Wisdom Tree" Avinashi Road,
Neelambur, Coimbatore - 641 062.



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DEPARTMENT OF CIVIL ENGINEERING

Course Syllabus

Name of the Course: Geographic Information System

Course Code : K16A202

Course Coordinator: Ms. R. Priyanka, AP/CIVIL

Total Hours : 30 hours

Academic Year : 2016-2017

Objective:

- To introduce the fundamentals and concepts of Geographic Information System.
- To apply and analyze spatial data structures input, management and output processes.

Syllabus

Module I: Introduction to GIS. Basic spatial concepts, Coordinate Systems, GIS and Information Systems, Types of data, Spatial, Attribute data- types of attributes-scales/ levels of measurements.

Module II: Database Structures, Relational, Object Oriented, ER diagram, spatial data models, Raster Data Structures, Raster Data Compression, Vector Data Structures

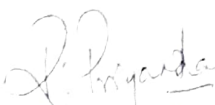
Module III: Scanner - Raster Data Input, Raster Data File Formats, Vector Data Input, Digitiser – Topology - Adjacency, connectivity and containment – Topological Consistency rules – Attribute Data linking

Module IV: Vector Data Analysis tools, Data Analysis tools, Network Analysis, Digital Education models 3D data collection and utilisation.

Module V : GIS Applicant - Natural Resource Management - Engineering - Navigation - Vehicle tracking and fleet management - Marketing and Business applications - Case studies.

Course outcomes: At the end of course, student will be able to

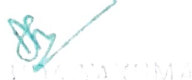
1. Understand the concepts of GIS and types of data models.
2. Gain knowledge on data quality and standards
3. Analyze the GIS images and arrive solutions.
4. Apply the concepts in solving real time problems.


Course Coordinator




IQAC Coordinator


HoD/ CIVIL


D. R. Lakshmi, Ph.D.,
Principals
Kathir College of Engineering,
"Wisdom Tree" Avinashi Road,
Neelambur, Coimbatore - 641 062.



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Attendance Sheet

Name of the Course : Geographic Information System

Course Code : K16A202

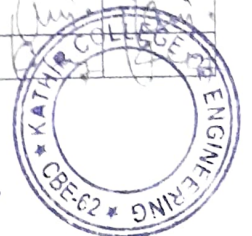
Course Coordinator : Ms. R. Priyanka, AP/ CIVIL

Total Hours : 30 hours

Academic Year : 2016-17

S. No.	Reg. No.	Name of the student	19.12.16	20.12.16	21.12.16	22.12.16	23.12.16	24.12.16
1	711614103001	AGATHEESWARAN G	Pres	Pres	Pres	Pres	Pres	Pres
2	711614103002	AISHWARYA S	S.P.S	S.P.S	S.P.S	S.P.S	S.P.S	S.P.S
3	711614103003	AKASH S	AKS	AKS	AKS	AKS	AKS	AKS
4	711614103004	ALISHPRIYANKA S	ALP	ALP	ALP	ALP	ALP	ALP
5	711614103005	ANTO ARUN RANJEETH D	Anto	Anto	Anto	Anto	Anto	Anto
6	711614103006	ARAVIND S	Arav	Arav	Arav	Arav	Arav	Arav
7	711614103008	BALAJI V	V. Balaji	V. Balaji	V. Balaji	V. Balaji	V. Balaji	V. Balaji
8	711614103009	BALA KUMAR K	B.K.	B.K.	B.K.	B.K.	B.K.	B.K.
9	711614103010	BALAKUMARAN M	B.K.M	B.K.M	B.K.M	B.K.M	B.K.M	B.K.M
10	711614103011	BOOPATHY V	B.V.	B.V.	B.V.	B.V.	B.V.	B.V.
11	711614103012	DEEPAN KUMAR V	D.K.V	D.K.V	D.K.V	D.K.V	D.K.V	D.K.V
12	711614103014	DHEENADHAYALAN S	D.D.S	D.D.S	D.D.S	D.D.S	D.D.S	D.D.S
13	711614103015	ELANGO VAN R	E.V.R	E.V.R	E.V.R	E.V.R	E.V.R	E.V.R
14	711614103017	GOKULRAJ A	G.A.	G.A.	G.A.	G.A.	G.A.	G.A.
15	711614103018	GOPALAKRISHNAN S	G.S.	G.S.	G.S.	G.S.	G.S.	G.S.
16	711614103019	HARI HARA SUDHAN V	H.S.V	H.S.V	H.S.V	H.S.V	H.S.V	H.S.V
17	711614103021	INBARASU S	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.
18	711614103022	JAYAKUMAR V	J.V.	J.V.	J.V.	J.V.	J.V.	J.V.
19	711614103023	JAYAPRAKASH V	J.V.	J.V.	J.V.	J.V.	J.V.	J.V.
20	711614103024	JESINTHA SMIRNA B	J.S.B	J.S.B	J.S.B	J.S.B	J.S.B	J.S.B
21	711614103025	KARTHICK L	K.L.	K.L.	K.L.	K.L.	K.L.	K.L.
22	711614103026	KARTHICK M	K.M.	K.M.	K.M.	K.M.	K.M.	K.M.
23	711614103027	KARTHICK S	K.S.	K.S.	K.S.	K.S.	K.S.	K.S.
24	711614103028	KARTHIK G	K.G.	K.G.	K.G.	K.G.	K.G.	K.G.
25	711614103029	KARTHIK M	K.M.	K.M.	K.M.	K.M.	K.M.	K.M.
26	711614103030	KARTHIKEYAN P	K.P.	K.P.	K.P.	K.P.	K.P.	K.P.
27	711614103031	KARUNYA A	K.A.	K.A.	K.A.	K.A.	K.A.	K.A.
28	711614103032	KAVIYANANTH D	K.D.	K.D.	K.D.	K.D.	K.D.	K.D.
29	711614103033	KIRUBAKARAN S	K.S.	K.S.	K.S.	K.S.	K.S.	K.S.

Dr. R. UDAIYAKUMAR, ME., Ph.D.,
Principal
Kathir College of Engineering
"Wisdom Tree" Avinashi Road,
43 Neelambur, Coimbatore - 641 062



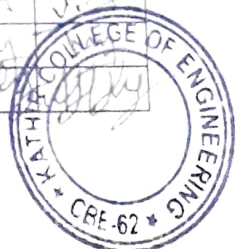


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Wisdom Tree, Neelambur, Avinashi Road, Coimbatore-62

30	711614103034	KISHORE M	Kishore	Kishore	Kishore	Kishore	Kishore	Kishore
31	711614103035	KOKILA S	Kokila	Kokila	Kokila	Kokila	Kokila	Kokila
32	711614103036	KRISHNA S	Krishna	Krishna	Krishna	Krishna	Krishna	Krishna
33	711614103037	LAKSHMI B	Lakshmi	Lakshmi	Lakshmi	Lakshmi	Lakshmi	Lakshmi
34	711614103038	LALITH KUMAR M	Lalith	Lalith	Lalith	Lalith	Lalith	Lalith
35	711614103039	MAHARAJAN S	Maharajan	Maharajan	Maharajan	Maharajan	Maharajan	Maharajan
36	711614103041	MANIMARAN B	Manimaran	Manimaran	Manimaran	Manimaran	Manimaran	Manimaran
37	711614103042	MANIVASAGAM T	Manivasagam	Manivasagam	Manivasagam	Manivasagam	Manivasagam	Manivasagam
38	711614103043	MATHANKUMAR S	Mathankumar	Mathankumar	Mathankumar	Mathankumar	Mathankumar	Mathankumar
39	711614103044	MOHAMMED ISMAIL P	Mohammed	Mohammed	Mohammed	Mohammed	Mohammed	Mohammed
40	711614103045	MUKESH S	Mukesh	Mukesh	Mukesh	Mukesh	Mukesh	Mukesh
41	711614103046	MUNISH D	Munish	Munish	Munish	Munish	Munish	Munish
42	711614103047	MURALITHARAN K	Muralitharan	Muralitharan	Muralitharan	Muralitharan	Muralitharan	Muralitharan
43	711614103049	NAVEENKUMAR R	Naveenkumar	Naveenkumar	Naveenkumar	Naveenkumar	Naveenkumar	Naveenkumar
44	711614103050	NAVEEN KUMAR A P	Naveen	Naveen	Naveen	Naveen	Naveen	Naveen
45	711614103051	NAVEENRAJ N	Naveenraj	Naveenraj	Naveenraj	Naveenraj	Naveenraj	Naveenraj
46	711614103053	PALANI KUMAR M	Palani	Palani	Palani	Palani	Palani	Palani
47	711614103054	PRASANTH M	Prasanth	Prasanth	Prasanth	Prasanth	Prasanth	Prasanth
48	711614103055	PRASATH S	Prasath	Prasath	Prasath	Prasath	Prasath	Prasath
49	711614103056	PUGALZHENDHI P	Pugal	Pugal	Pugal	Pugal	Pugal	Pugal
50	711614103058	RAJA GOPAL R	Raja	Raja	Raja	Raja	Raja	Raja
51	711614103059	SAI HEMA KRUBA V	Sai	Sai	Sai	Sai	Sai	Sai
52	711614103060	SAMJEYAKIRUBHAKARAN K	Samjeyakirubhakaran	Samjeyakirubhakaran	Samjeyakirubhakaran	Samjeyakirubhakaran	Samjeyakirubhakaran	Samjeyakirubhakaran
53	711614103061	SANGEETH KUMAR S	Sangeeth	Sangeeth	Sangeeth	Sangeeth	Sangeeth	Sangeeth
54	711614103062	SARAN B	Saran	Saran	Saran	Saran	Saran	Saran
55	711614103063	SARAVANAN P	Saravanan	Saravanan	Saravanan	Saravanan	Saravanan	Saravanan
56	711614103064	SATHESH S	Sathesh	Sathesh	Sathesh	Sathesh	Sathesh	Sathesh
57	711614103065	SELVAME	Selvame	Selvame	Selvame	Selvame	Selvame	Selvame
58	711614103066	SHYAM B	Shyam	Shyam	Shyam	Shyam	Shyam	Shyam
59	711614103067	SUJITH R	Sujith	Sujith	Sujith	Sujith	Sujith	Sujith
60	711614103068	SUJITH KUMAR K	Sujith	Sujith	Sujith	Sujith	Sujith	Sujith
61	711614103069	SURENTHIRAN U	Surenthiran	Surenthiran	Surenthiran	Surenthiran	Surenthiran	Surenthiran
62	711614103071	TAMILARASAN G K	Tamilarasan	Tamilarasan	Tamilarasan	Tamilarasan	Tamilarasan	Tamilarasan
63	711614103072	TAMILNATHAN V	Tamilnathan	Tamilnathan	Tamilnathan	Tamilnathan	Tamilnathan	Tamilnathan
64	711614103073	VENKATESH S	Venkatesh	Venkatesh	Venkatesh	Venkatesh	Venkatesh	Venkatesh
65	711614103074	VIGNESH K	Vignesh	Vignesh	Vignesh	Vignesh	Vignesh	Vignesh
66	711614103075	VIGNESH R	Vignesh	Vignesh	Vignesh	Vignesh	Vignesh	Vignesh
67	711614103076	VISALIC	Visali	Visali	Visali	Visali	Visali	Visali
68	711614103301	AJITH KUMAR R	Ajith	Ajith	Ajith	Ajith	Ajith	Ajith





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69	711614103302	ANANTH S	Ang	Ang	Ang	Ang	Ang	Ang
70	711614103303	BALAJI L	Balai	Balai	Balai	Balai	Balai	Balai
71	711614103304	DHILIP H	Dhili	Dhili	Dhili	Dhili	Dhili	Dhili
72	711614103305	GOPI M	M Gopi	M Gopi	M Gopi	M Gopi	M Gopi	M Gopi
73	711614103306	KALAIVANI R N	Kalai	Kalai	Kalai	Kalai	Kalai	Kalai
74	711614103307	MANIKANDAN S	Mani	Mani	Mani	Mani	Mani	Mani
75	711614103308	MANOBALAN K	Mano	Mano	Mano	Mano	Mano	Mano
76	711614103309	NAVEEN R	Nave	Nave	Nave	Nave	Nave	Nave
77	711614103310	PRAKASH K	Praka	Praka	Praka	Praka	Praka	Praka
78	711614103311	SARAVANA PRABU S	Sarava	Sarava	Sarava	Sarava	Sarava	Sarava
79	711614103312	SATHISH KUMAR A	Sathi	Sathi	Sathi	Sathi	Sathi	Sathi
80	711614103313	UDHAYA KUMAR S	Udha	Udha	Udha	Udha	Udha	Udha
81	711614103314	VINOTH KUMAR D	Vinoth	Vinoth	Vinoth	Vinoth	Vinoth	Vinoth
82	711614103315	VINOTH RAJ J	Vinoth	Vinoth	Vinoth	Vinoth	Vinoth	Vinoth
83	711614103316	VIVEK M	Vivek	Vivek	Vivek	Vivek	Vivek	Vivek
84	711614103701	MOHAMED IRFHAN S	Mohamed	Mohamed	Mohamed	Mohamed	Mohamed	Mohamed

R. Prasad

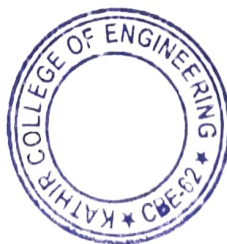
Course Coordinator

[Signature]

HoD/ CIVIL

[Signature]

Principal



[Signature]
 Dr. R. UDAIYAKUMAR, ME., Ph.D.,
 Principal
 Kathir College of Engineering
 "Wisdom Tree" Avinashi Road,
 Neelambur, Coimbatore - 641 062.



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Department of Civil Engineering

One Page Report

Name of the Course : Geographic Information System

Academic Year : 2016-2017

Course Code : K16A202

Course Coordinator : Ms. R. Priyanka, AP/CIVIL

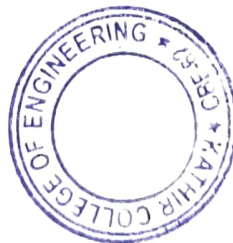
The co-curricular activity, Add on course on "Geographic Information System" presented to pupils covered all the course materials listed in the course curriculum. The goal of the course was to introduce the students to the fundamentals of a geographic information system. The course also focused on the numerous ways that GIS may be used to address issues in Civil Engineering.

The students learned about cutting-edge methods for precisely tackling difficult technical problems. In this additional course, all the third-year students actively engaged and performed well.

Course Coordinator

HoD/ CIVIL

Principal



Dr. R. UDAIYAKUMAR, ME., Ph.D.,
Principal
Kathir College of Engineering
"Wisdom Tree" Avinashi Road,
Neelambur, Coimbatore - 641 062.



Kathir College of Engineering

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Tree, Neelambur, Avinashi Road, Coimbatore-62

CERTIFICATE OF COMPLETION

This is to certify that **ARAVIND S** of III year successfully completed the add-on course in **Geographical Information System** conducted by the **Department of Civil Engineering** in the academic year **2016-17** during **19.12.16 to 24.12.16**.


Course Co-ordinator


HoD




Principal



Kathir College of Engineering

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Tree, Neelambur, Avinashi Road, Coimbatore-62


CERTIFICATE OF COMPLETION

This is to certify that **KARTHIKEYAN P** of III year successfully completed the add-on course in **Geographical Information System** conducted by the **Department of Civil Engineering** in the academic year **2016-17** during **19.12.16 to 24.12.16**.


Course Co-ordinator


HoD




Principal



Kathir College of Engineering

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Wisdom Tree, Neelambur, Avinashi Road, Coimbatore-62



Date: 19.08.2016

To
The Principal,
Kathir College of Engineering
Coimbatore – 641062

Respected Sir,

Sub: Permission to conduct add-on course – Reg

We have planned to conduct the add-on course for the EEE students from 25.08.2016 to 30.08.2016. The course is selected based on the willingness opted by the students. This add-on course will be very for our students to understand about the Safety precautions for Electrical Engineers. This course will be very useful for the students to know about different issues faced and how it can rectify using the safety equipment. In this regard I kindly request you to permission to utilize the MBA Seminar Hall.

Name of the Course : Safety for Electrical Engineers
Course Code : K16A301
Course Coordinators : Ms.V.Vidhyapriya and Ms.S.Kalpana

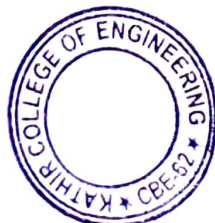
Thanking you


Course Coordinator


HOD/EEE


Principal


PRINCIPAL
KATHIR COLLEGE OF ENGINEERING,
NEELAMBUR,
COIMBATORE-62.





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DEPARTMENT OF ELECTRICAL AND ELECTRONICS ENGINEERING

Academic Year: 2016-2017

Date: 19.08.2016

Circular

It is planned to conduct the add-on course for our students. This is a certification course which is designed and offered by our department for the benefit of the students. Add-on course will be conducted at free of cost.

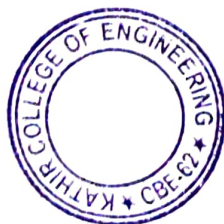
Name of the Add-on Course	Course Coordinator
Safety for Electrical Engineers	Ms.V.Vidhyapriya and Ms.S.Kalpana
Commencement of Course from 25.08.2016 to 30.08.2016 Time: 9.00 am – 5.00 pm	


Course Coordinator


IQAC Coordinator


HoD/EEE


PRINCIPAL
KATHIR COLLEGE OF ENGINEERING,
NEELAMBUR,
COIMBATORE-62.





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DEPARTMENT OF ELECTRICAL AND ELECTRONICS ENGINEERING

Academic Year: 2016-2017

Course Syllabus

Name of the Course : Safety for Electrical Engineers Course Code: K16A301
Course Coordinator : Ms.V.Vidhyapriya and Ms.S.Kalpana Total Hours : 30 Hrs

SAFETY FOR ELECTRICAL ENGINEERS

GENERAL PRINCIPLES OF ELECTRIC SAFETY

Electricity and Human Body – Earthing – Grounding – General Inspection and testing requirement for electrical safety equipment – Flash and thermal production – head and Eye Protection – Electricians Safety kits

HAZARDS IN ELECTRICITY

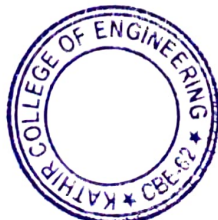
Lighting Hazards - Hazardous area –Hazard Analysis – shock effect - Electrical Insulation – Electrical fires – Arc Flash – Arc energy – arcing voltage – Injury and death – Protective Strategies - Electrical safety in hospitals

REGULATORY OF SAFETY REQUIREMENT AND STANDARDS

Risk assessment and Management – Safety against over voltage, extra-low and residual voltages – safety practice – Safety Audits – ANSI-IEEE Electrical safety code – Electrical standards at work place – Accident prevention

SAFETY PROCEDURES

Residual current detectors - effects of electric and magnetic fields and electromagnetic radiation – electro surgical hazards – electrical fires and their investigation – Indian electricity safety Act – Area Classification - Safety issues with emerging energy sources




PRINCIPAL
KATHIR COLLEGE OF ENGINEERING,
NEELAMBUR,
COIMBATORE-62.

SAFETY TRAINING METHODS

Introduction – Elements of a Training Program – On the Job Training – Training Consultants and Vendors- Training Program Setup – Step by Step Method electrical safety

TEXTBOOK:

1. Electrical safety handbook - John Cadick - McGRAW-HILL, Third Edition.
2. Standard Handbook for Electrical Engineers By H. Wayne Beaty and Donal G. Fink
3. Standard Handbook for Electrical Engineers, Seventeenth Edition 17th Edition
4. Practical Electrical Engineering 2nd Edition, by Sergey N. Makarov , Reinhold Ludwig , Stephen J. Bitar.


Course Coordinator

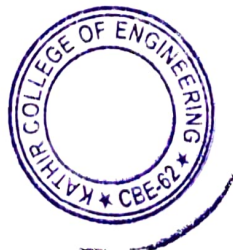

IQAC Coordinator


HOD/EEE


Principal



PRINCIPAL
KATHIR COLLEGE OF ENGINEERING
NEELAMBUR,
COIMBATORE-62





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Wisdom Tree, Neelambur, Avinashi Road, Coimbatore-62



DEPARTMENT OF ELECTRICAL AND ELECTRONICS ENGINEERING STUDENTS ENROLLMENT

S. No.	Reg. No.	Name of the Student
1	711613105001	AJITH KUMAR R
2	711613105002	AKILANDESWARI R
3	711613105004	ARUNA SELVA KUMARI M
4	711613105005	ARUN KUMAR A
5	711613105006	ASWINI N
6	711613105012	GOKUL A
7	711613105013	GOKUL G
8	711613105014	GOMATHI P
9	711613105015	GOWTHAM P S
10	711613105016	GOWTHAMI B
11	711613105017	HARI PRASATH A
12	711613105018	JESLIN I SUSAN
13	711613105019	JOHN FRANK C
14	711613105022	NAVEEN J
15	711613105024	NAVIN N
16	711613105026	PARTHIBAN A
17	711613105027	PAUL MARIA KELVIN A
18	711613105028	RAJARAJAN N
19	711613105301	ABINESH S
20	711613105302	CHINNADURAI R
21	711613105303	ROGHANANDAM I
22	711613105304	SATHYASEELAN P


Course Coordinator




PRINCIPAL
KATHIR COLLEGE OF ENGINEERING
NEELAMBUR,
COIMBATORE-62


HoD/EEE



Kathir College of Engineering



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DEPARTMENT OF ELECTRICAL AND ELECTRONICS ENGINEERING

Academic Year: 2016-2017

Attendance Sheet

Name of the Course : Safety for Electrical Engineers

Course Code: K16A301

Course Coordinator : Ms.V.Vidhyapriya and Ms.S.Kalpana

Total Hours : 30 Hrs

S.No	Students Name	25.08.2016		26.08.2016		27.08.2016		29.08.2016		30.08.2016		Sign
		FN	AN	FN	AN	FN	AN	FN	AN	FN	AN	
1.	AJITH KUMAR R	P	P	P	P	P	P	P	P	P	P	Ajith R.
2.	AKILANDESWARI R	P	P	P	P	P	P	A	A	P	P	Akilandewari R.
3.	ARUNA SELVA KUMARI M	P	P	P	P	A	A	P	P	P	P	Aruna Selva Kumari M.
4.	ARUN KUMAR A	P	P	P	P	P	P	P	P	P	P	Arun Kumar A.
5.	ASWINI N	P	P	P	P	P	P	P	P	P	P	Aswini N.
6.	GOKUL A	P	P	P	P	P	P	P	P	P	P	Gokul A.
7.	GOKUL G	P	P	P	P	A	A	P	P	P	P	Gokul G.
8.	GOMATHI P	P	P	P	P	P	P	P	P	P	P	Gomathi P.
9.	GOWTHAM P S	P	P	P	P	P	P	P	P	P	P	Gowtham P S.
10.	GOWTHAMI B	P	P	P	P	P	P	P	P	P	P	Gowthami B.
11.	HARI PRASATH A	P	P	A	A	P	P	A	A	P	P	Hari A.
12.	JESLIN I SUSAN	P	P	P	P	P	P	P	P	P	P	Jeslin I Susan.
13.	JOHN FRANK C	A	A	P	P	A	A	P	P	P	P	John Frank C.
14.	NAVEEN J	P	P	P	P	P	P	P	P	P	P	Naveen J.
15.	NAVIN N	P	P	P	P	P	P	P	P	P	P	Navin N.
16.	PARTHIBAN A	P	P	P	P	P	P	P	P	P	P	Parthiban A.
17.	PAUL MARIA KELVIN A	P	P	P	P	A	A	P	P	P	P	Paul Maria Kelvin A.
18.	RAJARAJAN N	P	P	P	P	P	P	P	P	P	P	Rajarajan N.
19.	ABINESH S	P	P	P	P	P	P	A	A	P	P	Abinеш S.
20.	CHINNADURAI R	P	P	P	P	P	P	A	A	P	P	Chinnadurai R.
21.	ROGHANANDAM I	P	P	P	P	P	P	P	P	A	A	Roghanandam I.
22.	SATHYASEELAN P	P	P	P	P	P	P	P	P	P	P	Sathyaseelan P.

S.Kalpana
25.8

S.Kalpana
26.8

S.Kalpana
27.8

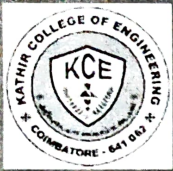
S.Kalpana
29.8

S.Kalpana
30.8

V.Vidya
Course Coordinator



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CERTIFICATE OF COMPLETION

This is to certify that Mr/Ms GOMATHI - P of IV year successfully completed Add-on course in Safety for Electrical Engineers conducted by the Department of Electrical and Electronics Engineering between 25TH to 30TH August 2016.


Coordinator




HOD


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COIMBATORE - 62


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CERTIFICATE OF COMPLETION

This is to certify that Mr/Ms GOKUL A of IV year successfully completed Add-on course in Safety for Electrical Engineers conducted by the Department of Electrical and Electronics Engineering between 25TH to 30TH August 2016.


Coordinator




HOD


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DEPARTMENT OF ELECTRICAL AND ELECTRONICS ENGINEERING

Academic Year: 2017-2018

Add-on Program report

Name of the Course : Safety for Electrical Engineers **Course Code:** K16A301
Course Coordinator : Ms.V.Vidhyapriya and Ms.S.Kalpana **Total Hours :** 30 Hrs

Since we operate in an atmosphere with electrical risks, this add-on course is highly helpful for electrical engineers. On the first day of class, topics such as electricity and the human body, earthing, grounding, general inspection and testing requirements for electrical safety equipment, flash and heat production, head and eye protection, and electrician safety kits were covered. On the second day, electrical hazards such lighting, shock effects, insulation, electrical injuries and fatalities, preventative measures, and hospital electrical safety were discussed. On the third day, regulations governing safety standards, safety practises, safety audits, and the ANSI-IEEE Electrical safety code are discussed. On days four and five, according to the Indian Standard Safety Act, safety procedures and safety training methods in residential and commercial settings were reviewed. The availability of jobs in the field of electrical safety was also covered.

Course Coordinator

HoD/EEE



Principal



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Date: 11.01.2017

To
The Principal,
Kathir College of Engineering
Coimbatore – 641062

Respected Sir,

Sub: Permission to conduct add-on course – Reg

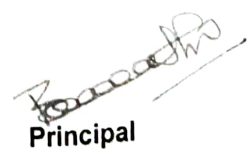
We have planned to conduct the add-on course for the EEE students from 20.01.2017 to 25.01.2017. The course is selected based on the willingness opted by the students. This add-on course will be very for our students to understand about the Industrial Drives Automation. This course will be very useful for the students to know about different Automation in Industries. In this regard I kindly request you to permission to utilize the Power Electronics Lab.

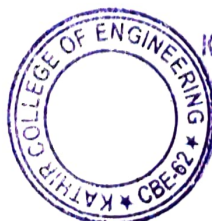
Name of the Course : Industrial Drives Automation
Course Code : K16A302
Course Coordinators : Ms.M.Jeyabharathi and Ms.S.Priyanga


Thanking you


Course Coordinator


HoD/EEE


Principal




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DEPARTMENT OF ELECTRICAL AND ELECTRONICS ENGINEERING

Academic Year: 2016-2017

Date: 11.01.2017

Circular

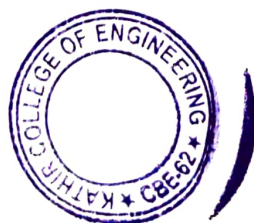
It is planned to conduct the add-on course for our students. This is a certification course which is designed and offered by our department for the benefit of the students. Add-on course will be conducted at free of cost.

Name of the Add-on Course	Course Coordinator
Industrial Drives Automation	Ms.M.Jeyabharathi and Ms.S.Priyanga
Commencement of Course from 20.01.2017 to 25.01.2017 Time: 9.00 am – 5.00 pm	

S. Ranga
Course Coordinator

M. Kannas
IQAC Coordinator

[Signature]
HoD/EEE



[Signature]
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DEPARTMENT OF ELECTRICAL AND ELECTRONICS ENGINEERING

Academic Year: 2016-2017

Course Syllabus

Name of the Course : Industrial Drives Automation Course Code: K16A302
Course Coordinator : Ms.M.Jeyabharathi and Ms.S.Priyanga Total Hours : 30 Hrs

INDUSTRIAL DRIVES AND AUTOMATION

INTRODUCTION

Definition, block diagram and types of Electric Drives – dynamics of electric drives – torque equations – speed torque characteristics of DC and AC motors – components of load torque – load equalization – steady state stability – heating and cooling curves – loading conditions and classes of duty – Selection of power rating for drive motors.

DC DRIVES

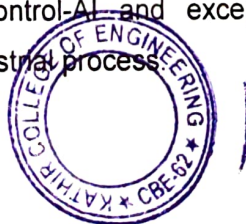
Speed control of DC series and shunt motors – concepts of constant torque and constant power control – concepts of Armature and field control, Ward Leonard control system – Speed control Using single phase-controlled rectifiers – fully controlled – half controlled – speed control using 3 phase fully controlled rectifier – control using DC choppers – multi quadrant operation – electric braking – closed loop control of DC drives.


ENERGY CONSERVATION AND SPECIAL CLASS OF DRIVES

Need for energy conservation in electrical drives – improvement of power factor, improvement of quality supply – solar and battery powered drives – Drives used for traction – Control of fractional hp motors.

SCADA

SCADA-Direct digital control-AI and expert control system-Case studies on computer control for industrial process




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PLC

Evaluation of PLC's- Sequential and programmable controllers-Architecture-Relay logic-Applications of PLC-Bottle fielding system.

TEXTBOOKS:


1. Dubey. G.K., "Power Semiconductor Controlled Drives", Prentice Hall International, 1989
2. B. K.Bose, "Modern Power Electronics and AC Drives", Prentice Hall Onglewood cliffs, NewJersey, 2002
3. D. Patranabis, Principle of industrial instrumentation, Tata MC Grahills publishers company ltd, 1996

REFERENCE BOOKS:

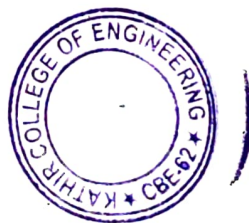
1. E.O Doubelin, "Measurement System"- Application Tata- McGraw hills 2004
2. Kevin collis, "PLC programming for In Industrial Automation, Diggory Press Publishers, 2007
3. Vedam Subrahmanyam, "Electric drives concepts and applications", TMH Pub. Co.Ltd. 1994


Course Coordinator


IQAC Coordinator


HoD/EEE


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DEPARTMENT OF ELECTRICAL AND ELECTRONICS ENGINEERING STUDENTS ENROLLMENT

S. No.	Reg. No.	Name of the Student
1.	711614105001	ARAVIND KUMAR M
2.	711614105002	KALAISELVI S
3.	711614105003	KARTHIKEYAN A
4.	711614105004	KAVIPRIYA M
5.	711614105005	MANIMARAN S
6.	711614105006	MEENACHI P
7.	711614105007	PALANISAMY T
8.	711614105009	RAMAKRISHNAN D
9.	711614105010	SANTHOSH K'R
10.	711614105011	SATHYA SHRIMATHI R
11.	711614105012	VISHNU DHARSHIT S
12.	711614105301	PARTHIBAN A
13.	711614105302	VENKATESH K
14.	711614105303	VIJAY M
15.	711614105304	VIJAYA DIWAKARAN S
16.	711614105305	VINITH D
17.	711614105501	NIRMAL RAJ S


Course Coordinator




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DEPARTMENT OF ELECTRICAL AND ELECTRONICS ENGINEERING

Academic Year: 2016-2017

Attendance Sheet

Name of the Course : Industrial Drives Automation

Course Code: K16A302

Course Coordinator : Ms.M.Jeyabharathi and Ms.S.Priyanga

Total Hours : 30 Hrs

S.No	Students Name	20.01.17	21.01.17	23.01.17	24.01.17	25.01.17	Sign
1.	ARAVIND KUMAR M	P	P	a	P	P	Aravind Kumar M
2.	KALAISELVI S	P	P	P	P	P	Kalaiselvi S
3.	KARTHIKEYAN A	P	P	P	P	P	Karthikeyan A
4.	KAVIPRIYA M	P	P	P	P	P	Kavipriya M
5.	MANIMARAN S	P	P	P	P	P	Manimaran S
6.	MEENACHI P	P	P	P	P	P	Meenachi P
7.	PALANISAMY T	a	P	P	P	P	Palanisamy T
8.	RAMAKRISHNAN D	P	P	P	P	P	Ramakrishnan D
9.	SANTHOSH K R	P	P	P	a	P	Santhosh K R
10.	SATHYA SHRIMATHI R	P	P	P	P	P	Sathyashrimathi R
11.	VISHNU DHARSHIT S	P	P	P	P	P	Vishnu Dharshit S
12.	PARTHIBAN A	P	P	P	P	P	Parthiban A
13.	VENKATESH K	P	P	P	P	a	Venkatesh K
14.	VIJAY M	a	P	P	P	P	Vijay M
15.	VIJAYA DIWAKARAN S	P	P	P	P	P	Vijaya Diwakaran S
16.	VINITH D	P	P	P	P	P	Vinith D
17.	NIRMAL RAJ S	P	P	P	a	P	Nirmal Raj S

Jeyabharathi
21/1

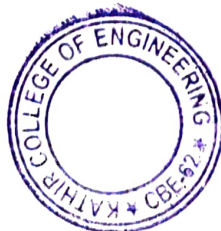
Jeyabharathi
21/1

Jeyabharathi
21/1

Jeyabharathi
21/1

Jeyabharathi
21/1

S. Priyanga
Course Coordinator



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DEPARTMENT OF ELECTRICAL AND ELECTRONICS ENGINEERING

Academic Year: 2017-2018

Add-on Program report

Name of the Course : Industrial Drives Automation

Course Code: K16A302

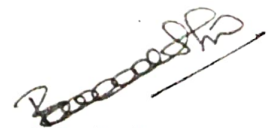
Course Coordinator : Ms.M.Jeyabharathi and Ms.S.Priyanga

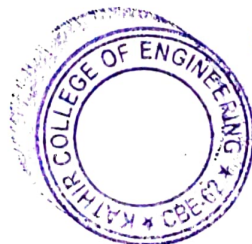
Total Hours : 30 Hrs


Discussed about block diagram and types of Electric Drives, dynamics of electric drives, torque equations, speed torque characteristics of DC and AC motors, duty, Selection of power rating for drive motors. Speed control of DC series and shunt motors speed control using DC choppers, multi quadrant operation, electric braking, closed loop control of DC drives. Improvement of power factor, improvement of quality supply, solar and battery powered drives, Drives used for traction, Control of fractional hp motors. Application of recent technology in the application industries such as SCADA and PLC. The overall program is good and excellent to gain knowledge in advanced technologies.


Course Coordinator


HoD/EEE


Principal




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CERTIFICATE OF COMPLETION

This is to certify that Mr/Ms PALANISAMY of III year successfully completed Add-on course in INDUSTRIAL DRIVES AND AUTOMATION conducted by the Department of Electrical and Electronics Engineering between 20TH to 25TH January 2017.

S. Ranganathan
Coordinator



[Signature]
HOD

[Signature]
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COIMBATORE-62.

[Signature]
Principal



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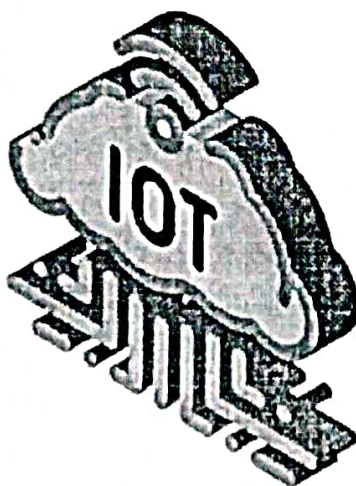
Department of Electronics and Communication

ADD ON COURSE FOR III ECE STUDENTS

ON

INTERNET OF THINGS

From
05.02.2017



To
10.02.2017

RESOURCE PERSON

Mrs. K. GEETHA

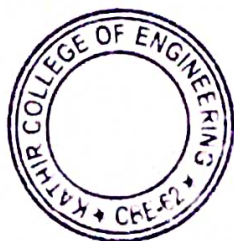
HEAD OF THE DEPARTMENT

DEPARTMENT OF ECE

KGISL INSTITUTE OF TECHNOLOGY

COIMBATORE

D. P. UDAYAKUMAR, ME., Ph.D.,
Principal
Kathir College of Engineering
"Wisdom Tree" Avinashi Road,
Neelambur, Coimbatore - 641 062.





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Date : 01.02.2017

To

The Principal,

Kathir College of Engineering

Coimbatore – 641062

Respected Sir,

Sub : Permission to conduct add on course – Reg

We have planned to conduct the add on course for the Third year ECE students from 05.02.2017 to 10.02.2017

Name of the Course : INTERNET OF THINGS

Course Code : K16A402

Course Coordinator : Mr. A. Muthukumar

So kindly permit us to conduct the above course and to utilize the class room and the lab

Thanking you

A. Muthukumar

Course Coordinator

M. Ciannas

HoD/ECE

Dr. R. Udaiyakumar

Dr. R. Udaiyakumar

Principal

Dr. R. UDAIYAKUMAR, ME., Ph.D.,
Principal
Kathir College of Engineering
"Wisdom Tree" Avinashi Road,
Neelambur, Coimbatore - 641 062.





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Circular

Sub : Add on Course

It is planned to conduct add on course for the Third year Electronics and Communication Engineering students.

The add on course are the certification course which are designed and offered by our department for the benefit of the students. Add on course will be conducted at free of cost and on completion of the course all the students will be issued the Certificate.

Students who are willing to attend the below mentioned course can enroll their names to the course coordinator.

Name of the Add on Course	Course Coordinator
INTERNET OF THINGS	Mr. A. Muthukumar
Commencement of Course from 05.02.2017 to 10.02.2017	
Time : 9.00 am – 5.00 pm	

A. Muthukumar

Course Coordinator

M. Ciannas

IAAC Coordinator

M. Ciannas

HoD/ECE

R. Udaiyakumar

Principal



R. Udaiyakumar
Dr. R. UDAIYAKUMAR, ME., Ph.D.,
Principal
Kathir College of Engineering
"Wisdom Tree" Avinashi Road,
Neelambur, Coimbatore - 641 062.



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DEPARTMENT OF ELECTRONICS AND COMMUNICATION ENGINEERING

Course Syllabus

Name of the Course : INTERNET OF THINGS

Course Code : K16A402

Course Coordinator : Mr. A. Muthukumar

Total Hours : 48

Academic Year : 2016-2017

Objective:

This Course focuses on hands-on IoT concepts such as sensing, actuation and communication. It covers the development of Internet of Things (IoT) prototypes—including devices for sensing, actuation, processing, and communication—to help you develop skills and experiences. The Internet of Things (IOT) is the next wave, world is going to witness. Today we live in an era of connected devices the future is of connected things.

Unit -1

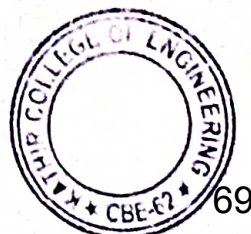
- Understanding IoT fundamentals
- IOT Architecture and protocols
- Various Platforms for IoT


Unit – II

- Arduino Uno Architecture
- Setup the IDE, Writing Arduino Software
- Arduino Libraries

Unit – III

- Overview of Sensors working
- Analog and Digital Sensors
- Interfacing of Temperature, Humidity, Motion, Light and Gas Sensor with Arduino




Dr. R. UDAIYAKUMAR, ME., Ph.D.,
Principal
Kathir College of Engineering
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Neelambur, Coimbatore - 641 062.

Unit – IV

- Basics of Wireless Networking
- Introduction to ESP8266 Wi-Fi Module
- Various Wi-Fi library

Unit – V

- M2M vs. IOT
- Communication Protocols

Course outcomes:

By completing this course, the students are expected to have obtained

1. The knowledge about fundamentals of IOT.
2. Ability to Setup the IDE, Writing Arduino Software.
3. Capability of Interfacing of Temperature, Humidity, Motion, Light and Gas Sensor with Arduino.
4. The skill of Posting sensor(s) data to web server.

References:

1. Accenture and General Electric. 2014. *Industrial Internet Insights Report for 2015*. Accessed April 2020. <https://www.accenture.com/us-en/acnmedia/Accenture/next-gen/reassembling-industry/pdf/Accenture-Industrial-Internet-Changing-Competitive-Landscape-Industries.pdf>.
2. Bauer, Martin, Mathieu Boussard, Nicola Bui, Jourik De Loof, Carsten Magerkurth, Stefan Meissner, Andreas Nettsträter, Julinda Stefa, Matthias Thoma, and Joachim W. Walewski. 2013. IoT Reference Architecture. In *Enabling Things to Talk*, 163–211. Berlin, Heidelberg: Springer.

A. Mathur
Course Coordinator

M. Cannon
IATC Coordinator

M. Cannon
HoD/ECE

R. Udaiyakumar
Principal



R. Udaiyakumar
Dr. R. UDAIYAKUMAR, M.E., Ph.D.,
Principal
Maharaja College of Engineering
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Neelambour, Coimbatore - 641 062.



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DEPARTMENT OF ELECTRONICS AND COMMUNICATION ENGINEERING

Add on Course Name List

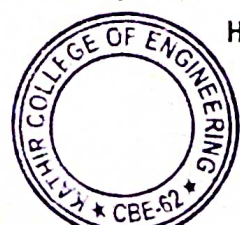
ADD on Coordinator : Mr. A. Muthukumar , Assistant Professor, ECE

Academic Year : 2016-2017

S.No	Register.No	Name of the Student	Signature
1	711614106001	ABINAYA V	Abinaya V
2	711614106002	ANANCIA T	Anancia T
3	711614106003	ANURAG C	Anurag C
4	711614106004	ARJUNA R	Arjun R
5	711614106005	BETRIC SATHYA S	Betric Sathya S
6	711614106006	BHUVANESHWARAN K	Bhuvaneshwaran K
7	711614106007	DEEPAK KUMAR A	Deepak Kumar A
8	711614106008	GOKULAVISHNU D	Gokulavishnu D
9	711614106009	GOKUL PRIYA K	Gokul Priya K
10	711614106010	GOWTHAM S	Gowtham S
11	711614106011	ISHWARYA M	Ishwarya M
12	711614106012	JEEVANANDAM S	Jeevanandam S
13	711614106013	JENISHA S G	Jenisha S G
14	711614106014	JERLIN ROSARY M	Jerlin Rosary M
15	711614106015	KANAGARAJ S	Kanagaraj S
16	711614106016	KARUNAI KANNAN E	Karunai Kannan E
17	711614106018	KODALI UTEJ	Kodali Utej
18	711614106019	LOGESH S	Logesh S
19	711614106020	MAMTHA P	Mamtha P
20	711614106021	MATHAN M	Mathan M
21	711614106022	NANDHINI R	Nandhini R
22	711614106023	NAVEEN KUMAR T	Naveen Kumar T

A. Muthukumar
Course Coordinator

M. Kannas
HoD/ECE



D. R. UDAIYAKUMAR, Ph.D.
Principal
Kathir College of Engineering
"Wisdom Tree" Avinashi Road,
Neelambur, Coimbatore - 641 062.



Kathir College of Engineering

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Department of Electronics and Communication Engineering

Attendance Sheet

Name of the Course : Internet Of things

Course Code : K16A402

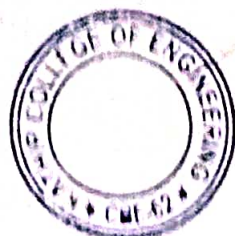
Course Coordinator : Mr. A. Muthukumar , Assistant Professor, ECE

Total Hours : 48

Academic Year : 2016-2017

S.No	Reg no	Name of the student	05/02/17	05/02/17	05/02/17	05/02/17	07/02/17	07/02/17	08/02/17	08/02/17	09/02/17	09/02/17	10/02/17
			FN	AN	FN	AN	FN	AN	FN	AN	FN	AN	R&T
1	711614106001	ABINAYA V	FN	AN	FN	AN	FN	AN	FN	AN	FN	AN	R&T
2	711614106002	ANANCIA T	FN	AN	FN	AN	FN	AN	FN	AN	FN	AN	R&T
3	711614106003	ANURAG C	FN	AN	FN	AN	FN	AN	FN	AN	FN	AN	R&T
4	711614106004	ARIUNA R	FN	AN	FN	AN	FN	AN	FN	AN	FN	AN	R&T
5	711614106005	BETRIC SATHYA S	FN	AN	FN	AN	FN	AN	FN	AN	FN	AN	R&T
6	711614106006	BHUVANESHWARAN K	FN	AN	FN	AN	FN	AN	FN	AN	FN	AN	R&T
7	711614106007	DEEPAK KUMAR A	FN	AN	FN	AN	FN	AN	FN	AN	FN	AN	R&T
8	711614106008	GOKULAVISHNU D	FN	AN	FN	AN	FN	AN	FN	AN	FN	AN	R&T
9	711614106009	GOKUL PRIYA K	FN	AN	FN	AN	FN	AN	FN	AN	FN	AN	R&T
10	711614106010	GOWTHAM S	FN	AN	FN	AN	FN	AN	FN	AN	FN	AN	R&T
11	711614106011	ISHWARIYA M	FN	AN	FN	AN	FN	AN	FN	AN	FN	AN	R&T
12	711614106012	JEEVANANDAM S	FN	AN	FN	AN	FN	AN	FN	AN	FN	AN	R&T
13	711614106013	JENISHA S G	FN	AN	FN	AN	FN	AN	FN	AN	FN	AN	R&T
14	711614106014	JERLIN ROSARY M	FN	AN	FN	AN	FN	AN	FN	AN	FN	AN	R&T
15	711614106015	KANAGARAJ S	FN	AN	FN	AN	FN	AN	FN	AN	FN	AN	R&T
16	711614106016	KARUNAI KANNAN E	FN	AN	FN	AN	FN	AN	FN	AN	FN	AN	R&T
17	711614106018	KODALI UTEJ	FN	AN	FN	AN	FN	AN	FN	AN	FN	AN	R&T
18	711614106019	LOGESH S	FN	AN	FN	AN	FN	AN	FN	AN	FN	AN	R&T
19	711614106020	MAMTHA P	FN	AN	FN	AN	FN	AN	FN	AN	FN	AN	R&T
20	711614106021	MATHAN M	FN	AN	FN	AN	FN	AN	FN	AN	FN	AN	R&T
21	711614106022	NANDHINI R	FN	AN	FN	AN	FN	AN	FN	AN	FN	AN	R&T
22	711614106023	NAVEEN KUMAR T	FN	AN	FN	AN	FN	AN	FN	AN	FN	AN	R&T

A. Muthukumar
Course Coordinator



A. Kannan
HoD/ECE

R. Udaiyakumar
Dr. R. UDAIYAKUMAR Ph.D.,
Principal
Kathir College of Engineering
"Wisdom Tree" Avinashi Road,
Neelambur, Coimbatore - 641 062.



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Department of Electronics and Communication Engineering

One Page Report

Name of the Course : Internet Of Things Academic Year :2016-2017

Course Code :K16A402

Course Coordinator : Mr. A. Muthukumar , Assistant Professor/ECE

The entire course contents listed in the course syllabus of the add on course "Internet of Things" has educated the students the part of prescribed co-curricular activities through add on program.

They have been given basic concepts of topics mentioned and students clearly understood the fundamentals of Internet of Things.

The add on course titled "Internet of Things" has been conducted and course delivery along with attendance of the students was recorded.

The students actively attended this add on course and performed well throughout the program and all students received the certificate.

At the End of this course the students will be Equipped to execute the following Skills.

Course outcomes

By completing this course, the students are expected to have obtained

1. The knowledge about fundamentals of IOT.
2. Ability to Setup the IDE, Writing Arduino Software.
3. Capability of Interfacing of Temperature, Humidity, Motion, Light and Gas Sensor with Arduino.
4. The skill of Posting sensor(s) data to web server.

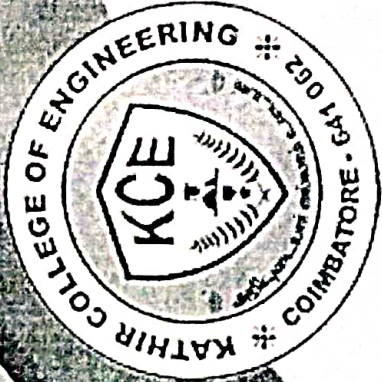
A. Muthukumar
Course Coordinator



U. Annas
HoD/ECE

73

U. Annas
Dr. R. UDAIYAKUMAR, ME, Ph.D.,
Principal
Kathir College of Engineering
"Wisdom Tree" Avinashi Road,
Neelambur, Coimbatore - 641 062.



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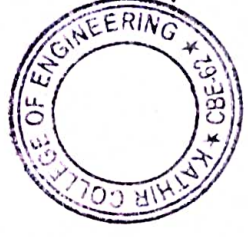
JENISHA . S . G

Of III year successfully completed the add-on course in conducted Internet
Of Things by the Department of Electronics and Communication engineering
in the academic year

2016 - 2017 during 05.02.17 to 10.02.17

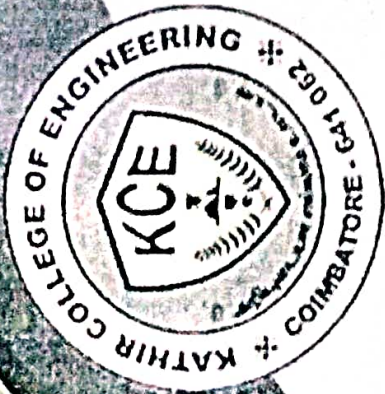
D. Muthukumar

Co-ordinator



Dr. R. Udaiyakumar
Dr. R. UDAIYAKUMAR, ME., Ph.D.,
Principal
Kathir College of Engineering
"Wisdom Tree" Avinashi Road,
Neelemur Coimbatore - 641 062.

HOD



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CERTIFICATE OF COMPLETION

THIS IS TO CERTIFY THAT

KANA GARAJ. S

Of III year successfully completed the add-on course in conducted Internet
Of Things by the Department of Electronics and Communication engineering

in the academic year

2016 - 2017 during 05.02.17 to 10.02.17

Muthukumar

Co-ordinator

Dr. R. UDAIYAKUMAR, ME., Ph.D.

Principal

Kathir College of Engineering
"Wisdom Tree" Avinashi Road,
Neelambur, Coimbatore - 641 062.



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Accredited by NAAC & ISO Certified Institution



The management, Principal, Staff & Students Cordially Invite you for the

Department of Electronics and Communication Engineering

Add On Course on

PCB fabrication and designing

RESOURCE PERSON

Mr. A.RENALDO MAXIMUS

Assitant Professor,

Department of ECE, Government College of Engineering, Tirunelveli

Felicitation

Thiru.E.S.Kathir

Chairman, Kathir Institutions

Tmt.Lavanya Kathir

Secretary, Kathir Institutions

Dr.G.Doraiswamy

CEO,KCE

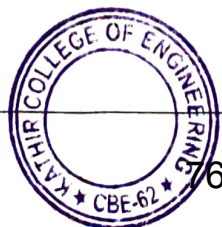
Dr.P.Banumathi

Principal,KCE

VENUE: IIT BOMBAY HALL

DATE:05/10/2016

All are Cordially Invited



Dr. R. UDAIYAKUMAR, ME., Ph.D.,
Principal
Kathir College of Engineering
"Wisdom Tree" Avinashi Road,
Neelambur, Coimbatore - 641 062.



Kathir College of Engineering

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Date : 01.10.2016

To
The Principal,
Kathir College of Engineering
Coimbatore – 641062

Respected Sir,

Sub : Permission to conduct add on course – Reg

We have planned to conduct the add on course for the Third year ECE students from 05.10.2016 to 10.10.2016

Name of the Course : PCB FABRICATION AND DESIGNING

Course Code : **K16A401**

Course Coordinator : Mr. P. Vivek Karthick, AP/ECE

So kindly permit us to conduct the above course and to utilize the class room and the lab

Thanking you

P. Vivek Karthick
Course Coordinator

M. Ciannas
HoD/ECE



R. Udaiyakumar
Principal



Dr. R. UDAIYAKUMAR, ME., Ph.D.,
Principal
Kathir College of Engineering
"Wisdom Tree" Avinashi Road,
Neelambur, Coimbatore - 641 062.



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Circular

Sub : Add on Course

It is planned to conduct add on course for the Third year Electronics and Communication Engineering students.

The add on course are the certification course which are designed and offered by our department for the benefit of the students. Add on course will be conducted at free of cost and on completion of the course all the students will be issued the Certificate.

Students who are willing to attend the below mentioned course can enroll their names to the course coordinator.

Name of the Add on Course	Course Coordinator
PCB FABRICATION AND DESIGNING	Mr. P. Vivek Karthick, AP/ECE
Commencement of Course from 05.10.2016 to 10.10.2016	
Time : 9.00 am – 5.00 pm	

P. Vivek Karthick
Course Coordinator

M. Canna
ISAC Coordinator

M. Canna
HoD/ECE

[Signature]
Principal



[Signature]
Dr. R. UDAIYAKUMAR, ME., Ph.D.,
Principal
Kathir College of Engineering
"Wisdom Tree" Avinashi Road,
Neelambur, Coimbatore - 641 062.



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DEPARTMENT OF ELECTRONICS AND COMMUNICATION ENGINEERING

Course Syllabus

Name of the Course : PCB FABRICATION AND DESIGNING

Course Code : K16A401

Course Coordinator : Mr. P. Vivek Karthick, AP/ECE

Total Hours : 48

Academic Year : 2016-2017

Objective:

- To learn about the fundamentals of Electronics
- To learn about Fundamentals of Circuit Design
- To learn about Power Supply Design
- To learn about Classification of PCB

Unit -1

Electronic Fundamentals

Unit – II

Fundamentals of Circuit Design

Unit – III

Power Supply Design

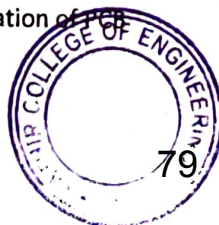
Unit – IV

Classification of PCB

Course outcomes:

By completing this course, the students are expected to have obtained

1. Knowledge about the fundamentals of Electronics
2. Skills about Fundamentals of Circuit Design
3. Sufficient information about Power Supply Design
4. Skills pertaining to Classification of PCB




Dr. R. UDAIYAKUMAR, ME., Ph.D.,
Principal
Kathir College of Engineering
"Wisdom Tree" Avinashi Road,
Neelambur, Coimbatore - 641 062.

References:

PCB Design for Real-World EMI Control (The Springer International Series in Engineering and Computer Science)" by James Drewniak and Bruce R Archambeault

P. Vivek Karthick

Course Coordinator

M. Kannas

ISAC Coordinator

M. Kannas

HoD/ECE

[Signature]

Principal

[Signature]



Dr. R. UDAIYAKUMAR, ME., Ph.D.,
Principal
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DEPARTMENT OF ELECTRONICS AND COMMUNICATION ENGINEERING

Add on Course Name List

ADD on Coordinator : Mr. P. Vivek Karthick, Assistant Professor, ECE

Academic Year : 2016-2017

S.No	Register.No	Name of the Student	Signature
1	711614106028	SARANYA A	<i>Sarany A</i>
2	711614106029	SAVITHA R	<i>Savitha R</i>
3	711614106030	SHILPA D	<i>Shilpa D</i>
4	711614106031	SILAMBARASAN S	<i>Silambarasan S</i>
5	711614106032	SIVA M	<i>Mo Siva</i>
6	711614106034	SOWBARNIKA T	<i>Sowbarnika T</i>
7	711614106035	SUJITHA D	<i>Sujitha D</i>
8	711614106036	SURESH D	<i>D. Suresh</i>
9	711614106037	THANOO SRI LAKSHMMI BABU	<i>Thanoo Sri Lakshmmi Babu</i>
10	711614106038	VIGNESH A	<i>Vignesh A</i>
11	711614106039	VIGNESHWARAN S	<i>Vigneshwaran S</i>
12	711614106040	VINODH V	<i>Vinodh V</i>
13	711614106041	YAMINI R	<i>Yamini R</i>
14	711614106301	KAMATCHI V	<i>Kamatchi V</i>
15	711614106302	SHARATH V	<i>Sharath V</i>

P. Vivek Karthick

Course Coordinator

M. Kannas

HoD/ECE

R. Udaiyakumar

Principal



Dr. R. UDAIYAKUMAR, ME., Ph.D.,
Principal

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Department of Electronics and Communication Engineering

Attendance Sheet

Name of the Course : PCB FABRICATION AND DESIGNING

Course Code : K16A401

Course Coordinator : Mr. P. Vivek Karthick , Assistant Professor, ECE

Total Hours : 48

Academic Year : 2016-2017

S.No	Reg no	Name of the student	05/10/16	05/10/16	06/10/16	06/10/16	07/10/16	07/10/16	08/10/16	08/10/16	09/10/16	09/10/16	10/10/16
			FN	AN	FN	AN	FN	AN	FN	AN	FN	AN	FN
1	711614106028	SARANYA A	AB	SA	SA	SA	SA	SA	SA	SA	SA	SA	SA
2	711614106029	SAVITHA R	SA	SA	SA	SA	SA	SA	SA	SA	SA	SA	SA
3	711614106030	SHILPA D	SA	SA	SA	SA	SA	SA	SA	SA	SA	SA	SA
4	711614106031	SILAMBARASAN S	SA	SA	SA	SA	AB	SA	SA	SA	SA	SA	SA
5	711614106032	SIVA M	SA	SA	SA	SA	SA	SA	SA	SA	SA	SA	SA
6	711614106034	SOWBARNIKA T	SA	SA	SA	SA	SA	SA	SA	SA	SA	SA	SA
7	711614106035	SUJITHA D	SA	SA	SA	SA	SA	SA	SA	SA	SA	SA	SA
8	711614106036	SURESH D	SA	AB	SA	SA	SA	SA	SA	SA	SA	SA	SA
9	711614106037	THANOO SRI LAKSHMMI BABU	SA	SA	SA	SA	SA	SA	SA	AB	SA	SA	SA
10	711614106038	VIGNESH A	SA	SA	SA	SA	SA	SA	SA	SA	SA	SA	SA
11	711614106039	VIGNESHWARAN S	SA	SA	SA	SA	SA	SA	SA	SA	SA	SA	SA
12	711614106040	VINODH V	SA	SA	SA	SA	SA	AB	SA	SA	SA	SA	SA
13	711614106041	YAMINI R	SA	SA	SA	SA	SA	SA	SA	SA	SA	SA	SA
14	711614106301	KAMATCHI V	SA	SA	SA	SA	SA	SA	SA	SA	AB	SA	SA
15	711614106302	SHARATH V	SA	SA	SA	SA	SA	SA	SA	SA	SA	SA	SA

P. Vivek Karthick
 Course Coordinator

M. Ciannas
 HoD/ECE

R. Udaiyakumar
 Principal



Dr. R. UDAIYAKUMAR, ME., Ph.D.,
 Principal
 Kathir College of Engineering
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Department of Electronics and Communication Engineering

One Page Report

Name of the Course : PCB FABRICATION AND DESIGNING Academic Year :2016-2017

Course Code : K16A401

Course Coordinator : Mr. P. Vivek Karthick , Assistant Professor/ECE

The entire course contents listed in the course syllabus of the add on course "PCB FABRICATION AND DESIGNING" has educated the students the part of prescribed co-curricular activities through add on program.

They have been given basic concepts of topics mentioned and students clearly understood the fundamentals of PCB fabrication and Designing.

The add on course titled "PCB FABRICATION AND DESIGNING" has been conducted and course delivery along with attendance of the students was recorded.

The students actively attended this add on course and performed well throughout the program and all students received the certificate.

At the End of this course the students will be Equipped to execute the following Skills.

Course outcomes

By completing this course, the students are expected to have obtained

1. Knowledge about the fundamentals of Electronics
2. Skills about Fundamentals of Circuit Design
3. Sufficient information about Power Supply Design
4. Skills pertaining to Classification of PCB

P. Vivek Karthick

Course Coordinator



M. Kannan
HoD/ECE

83

R. Udaiyakumar
Dr. R. UDAIYAKUMAR, M.E., Ph.D.,
Principal

Kathir College of Engineering
"Wisdom Tree" Avinashi Road,
Neelambur, Coimbatore - 641 062.



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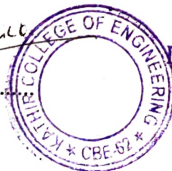
THIS IS TO CERTIFY THAT

YAMINI. R

Of **III** year successfully completed the add-on course in conducted **PCB
Fabrication and Designing** by the **Department of Electronics and
Communication engineering** in the academic year
2016-2017 during **05.10.16 to 10.10.16**

P. Vinay. Kumar

Co-ordinator

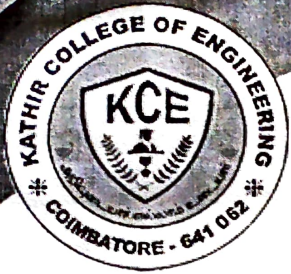


Dr. R. UDAIYAKUMAR, ME., Ph.D.,
Principal
Kathir College of Engineering
"Wisdom Tree" Avinashi Road,
Neeiamur, Coimbatore - 641 062.

84

M. Ceannas

HOD



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CERTIFICATE OF COMPLETION

THIS IS TO CERTIFY THAT

SHARATH.V

Of **III** year successfully completed the add-on course in conducted **PCB
Fabrication and Designing** by the **Department of Electronics and
Communication engineering** in the academic year
2016-2017 during **05.10.16 to 10.10.16**

P. Vinu. Kathir

Co-ordinator

Dr.
Dr. R. UDAIYAKUMAR, ME., Ph.D.,
Principal
Kathir College of Engineering
"Wisdom Tree" Avinashi Road,
Neeian ur.Coimbatore - 641 062.

85



U. Ceannas
HOD



KATHIR COLLEGE OF ENGINEERING
WISDOM TREE, NEELAMBUR,
COIMBATORE - 641 062

**SAE Dismantling &
Assembling
Workshop**

Conducted by

Ambal Auto Training Centre,
Ramanthapuram
Coimbatore

Dates:

26-09-2016 to 30-09-2016

11 am – 6 pm

Venue:

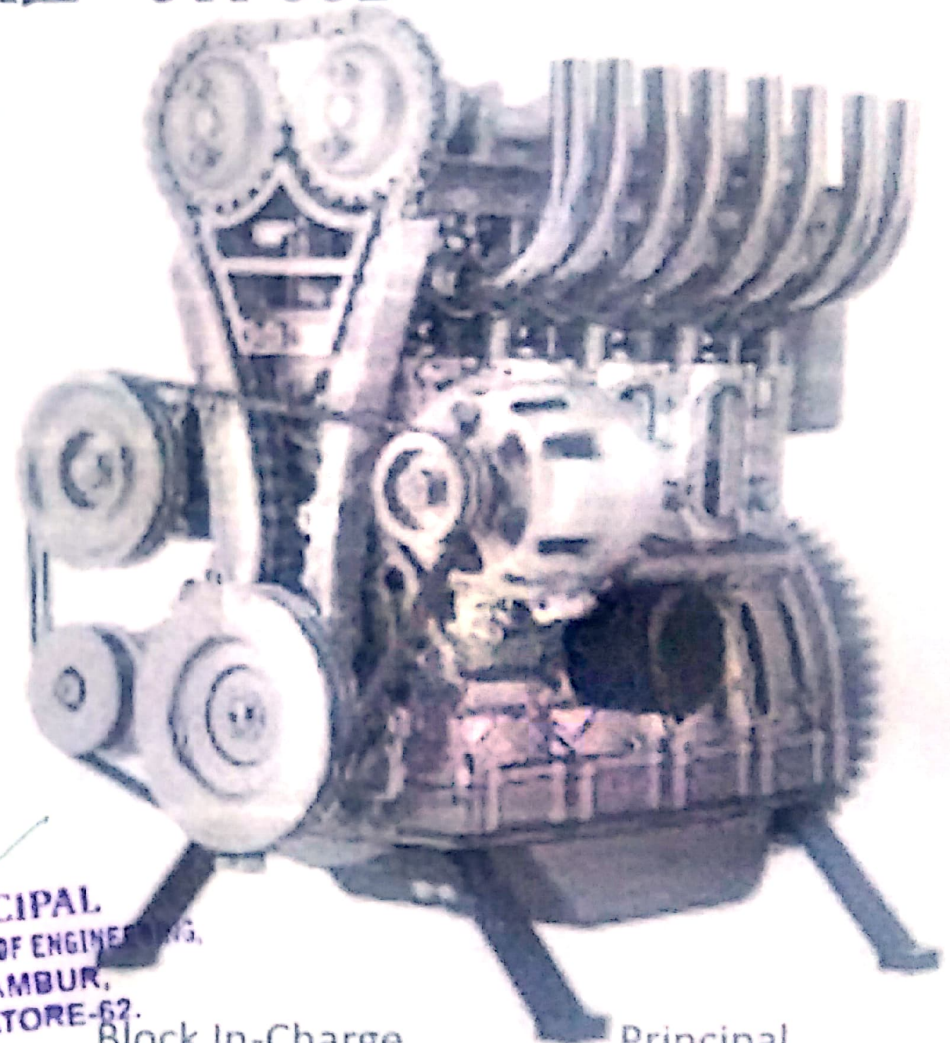
Thermal LAB, KCE,
Neelambur

Faculty Coordinator
Mr.R.S.Prakash

HoD/Mechanical
Prof. A.R.Suresh

Block In-Charge
Dr. Vaikundaselvan

Principal
Dr. P.Banumathi



PRINCIPAL
KATHIR COLLEGE OF ENGINEERING,
NEELAMBUR,
COIMBATORE-62.



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"Wisdom Tree", Avinashi Road, Neelambur, Coimbatore 641062

Date :11-09-16

To
The Principal,
Kathir College of Engineering
Coimbatore – 641062

Respected Sir,

Sub : Permission to conduct add on course – Reg

We have planned to conduct the add on course for the Final year MECHANICAL students from 26-09-16 to 30-09-16.

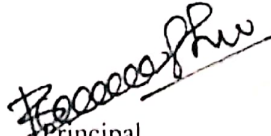
Name of the Course :SAE Dismantling & Assembling Workshop
Course Code : K16A501
Course Coordinator :Mr.R.S.Prakash, AP-MECH

So kindly permit us to conduct the above course and to utilize the class room and the Thermal Lab

Thanking you


11/9/16
Course Coordinator


HoD/MECH


Principal



PRINCIPAL
KATHIR COLLEGE OF ENGINEERING,
NEELAMBUR,
COIMBATORE-62.



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Circular

Sub : Add on Course

It is planned to conduct the add on course for the final year Mechanical Engineering students.

The add on course are the certification course which are designed and offered by our department for the benefit of the students. Add on course will be conducted at free of cost and based on the performance of the participated students, the merit certificate will be issued after the successful completion of the course.

Students who are willing to attend the below mentioned course can enroll their names to the course coordinator.

Name of the Add on Course	Course Coordinator
SAE Dismantling & Assembling Workshop	Mr.R.S.Prakash, AP/MECH
Commencement of Course from 26-09-16 to 30-09-16 Time : 11.00 a.m – 6.00 pm	

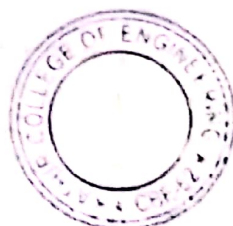

Course Coordinator


IAQC Coordinator


HOD/MECH


Principal





KATHIR COLLEGE OF ENGINEERING
NEELAMBUR,
COIMBATORE-62



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DEPARTMENT OF MECHANICAL ENGINEERING

Course Syllabus

Name of the Course :SAE Dismantling & Assembling Workshop

Course Code :K16A501

Course Coordinator :Mr.R.S.Prakash,AP/MECH

Total Hours : 30 hours

Academic Year :2016-2017

Objective:

- To give exposure to IC Engines component & operation.
- To explore the students to Hands-on training with Dismantling and Assembly.

SAE Dismantling & Assembling Workshop

Introduction to IC Engines- IC engine – Classification, working, components and their functions. Ideal and actual : Valve and port timing diagrams, p-v diagrams- two stroke & four stroke, and SI & CI engines comparison. Operating, and performance comparison of SI and CI engines. Desirable properties and qualities of fuels. Combustion in SI & CI Engines – Knocking –control.

Performance parameters and calculations. Morse and Heat Balance tests.Multipoint Fuel Injection system and CRDI systems.Ignition systems – Magneto, Battery and Electronic.Lubrication and Cooling systems.Emission Norms.

I. C. Engines Dismantling and Assembly (Hands-on workshop)- Non Destructive Testing Techniques- I. C. Engines (Hands-on workshop)

Course outcomes:


- Students able to understand IC Engines component & operation.
- Students can able to Dismantle and Assemble various parts IC Engine.

References:

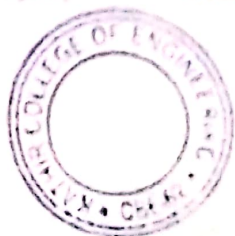
1. Ganesan V Internal Combustion Engines , Third Edition, Tata Mcgraw-Hill 2012.


Course Coordinator


IAQC Coordinator


HoD/MECH


Principal



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COIMBATORE-62



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 Department of Mechanical Engineering

Attendance Sheet

Name of the Course :SAE Dismantling & Assembling Workshop

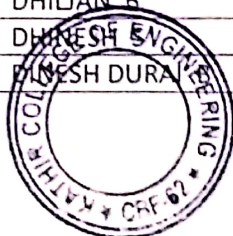
Course Code :K16A501

Course Coordinator :Mr.R.S.Prakash, AP/MECH

Total Hours :30 hours

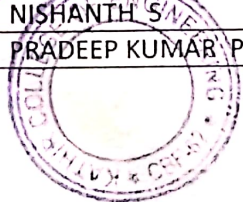
Academic Year :2016-2017

S.No	Reg no	Name of the student	26	27	28	29	30	Test
1	711613114001	ABISH CS	CS	CS	CS	CS	CS	CS
2	711613114002	ABISH FLEMING DHAS V	DF	DF	DF	DF	DF	DF
3	711613114003	AJITH R	AR	AR	AR	AR	AR	AR
4	711613114004	ALEXANDER P	A	A	A	A	A	A
5	711613114005	ANANDHAN R	AN	AN	AN	AN	AN	AN
6	711613114006	ANANTHARAJ M	AM	AM	AM	AM	AM	AM
7	711613114007	ANISH K	AK	AK	AK	AK	AK	AK
8	711613114008	ARAVIND V	AV	AV	AV	AV	AV	AV
9	711613114009	ARAVINDH R	AR	AR	AR	AR	AR	AR
10	711613114010	ARAVINDHAN V	AV	AV	AV	AV	AV	AV
11	711613114011	ARAVIND KUMAR S	AS	AS	AS	AS	AS	AS
12	711613114012	ARAVINTH M	AM	AM	AM	AM	AM	AM
13	711613114013	ARUL KUMAR K	AK	AK	AK	AK	AK	AK
14	711613114014	ARUN K	AK	AK	AK	AK	AK	AK
15	711613114015	ARUN R	AR	AR	AR	AR	AR	AR
16	711613114016	ARUN KUMAR R	AK	AK	AK	AK	AK	AK
17	711613114017	ASHNATH D	AD	AD	AD	AD	AD	AD
18	711613114018	ASHOK K	AK	AK	AK	AK	AK	AK
19	711613114019	ASHWIN S	AS	AS	AS	AS	AS	AS
20	711613114020	BACKIYARAJ P	BP	BP	BP	BP	BP	BP
21	711613114021	BALAJI J	BJ	BJ	BJ	BJ	BJ	BJ
22	711613114022	BALAMURALI R	BR	BR	BR	BR	BR	BR
23	711613114023	BIJU THOMAS A	BT	BT	BT	BT	BT	BT
24	711613114024	CHANDRASEKAR E	CE	CE	CE	CE	CE	CE
25	711613114025	CHARLES STEPHEN J	CS	CS	CS	CS	CS	CS
26	711613114026	DANIEL PRADEEP I	DI	DI	DI	DI	DI	DI
27	711613114027	DEEPAK B	DB	DB	DB	DB	DB	DB
28	711613114028	DEEPIKA M	DM	DM	DM	DM	DM	DM
29	711613114029	DHANABAL K	DK	DK	DK	DK	DK	DK
30	711613114030	DHILAN B	DB	DB	DB	DB	DB	DB
31	711613114031	DINESH ENGINEERING	DE	DE	DE	DE	DE	DE
32	711613114032	DINESH DURA	DD	DD	DD	DD	DD	DD



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33	711613114033	DINESH KUMAR P	Dik	Dik	Dik	Dik	Dik	Dik
34	711613114034	DIVAGARAN S V	Dik	Dik	Dik	Dik	Dik	Dik
35	711613114035	GANESH KUMAR R	Dik	Dik	Dik	Dik	Dik	Dik
36	711613114036	GNANA PRAKASH T	Dik	Dik	Dik	Dik	Dik	Dik
37	711613114037	GOKULA KRISHNAN R	Gok	Gok	Gok	Gok	Gok	Gok
38	711613114038	GOKUL PRASANTH N	Gok	Gok	Gok	Gok	Gok	Gok
39	711613114039	GOVARTHANAN V	Gop	Gop	Gop	Gop	Gop	Gop
40	711613114040	GOWTHAM G	Gom	Gom	Gom	Gom	Gom	Gom
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42	711613114043	GUNASEKAR S	Gus	Gus	Gus	Gus	Gus	Gus
43	711613114044	HARI HARAN S	Hes	Hes	Hes	Hes	Hes	Hes
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48	711613114050	JEEVANANTHAN M	Jee	Jee	Jee	Jee	Jee	Jee
49	711613114051	JEFI CHRISTOFER S	Jef	Jef	Jef	Jef	Jef	Jef
50	711613114052	KAARTHIK E	Kar	Kar	Kar	Kar	Kar	Kar
51	711613114053	KAMALAKANNAN D	Kam	Kam	Kam	Kam	Kam	Kam
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53	711613114055	KANAGARAJ K	Kan	Kan	Kan	Kan	Kan	Kan
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55	711613114058	KARKUVEL P	Kar	Kar	Kar	Kar	Kar	Kar
56	711613114059	KARTHICK A	Kar	Kar	Kar	Kar	Kar	Kar
57	711613114060	KARTHICK C	Kar	Kar	Kar	Kar	Kar	Kar
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59	711613114062	KARTHICKKUMAR S	Kar	Kar	Kar	Kar	Kar	Kar
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63	711613114066	KATHIRESAN V	Kat	Kat	Kat	Kat	Kat	Kat
64	711613114067	KINGUP MELVIN M	Kin	Kin	Kin	Kin	Kin	Kin
65	711613114068	KIRUBHAKARAN A	Kir	Kir	Kir	Kir	Kir	Kir
66	711613114069	KOWSIK S	Kow	Kow	Kow	Kow	Kow	Kow
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68	711613114071	MANOJ V	Man	Man	Man	Man	Man	Man
69	711613114072	MARIKUMAR D	Mar	Mar	Mar	Mar	Mar	Mar
70	711613114077	MOHANKUMAR T	Moh	Moh	Moh	Moh	Moh	Moh
71	711613114078	MOHANRAJ R	Moh	Moh	Moh	Moh	Moh	Moh
72	711613114079	MOHAN RAJ S	Moh	Moh	Moh	Moh	Moh	Moh
73	711613114080	MUGESH R	Mug	Mug	Mug	Mug	Mug	Mug
74	711613114082	NAGARAJ M	Nag	Nag	Nag	Nag	Nag	Nag
75	711613114083	NARESH KUMAR S	Nar	Nar	Nar	Nar	Nar	Nar
76	711613114084	NAVANEETHAKRISHNAN M	Nav	Nav	Nav	Nav	Nav	Nav
77	711613114085	NAVANEETHAKRISHNAN P	Nav	Nav	Nav	Nav	Nav	Nav
78	711613114087	NISHANTH S	Nis	Nis	Nis	Nis	Nis	Nis
79	711613114092	PRADEEP KUMAR P	Pra	Pra	Pra	Pra	Pra	Pra



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80	711613114093	PRAKASH N	P	P	P	P	P	P
81	711613114094	PRANESH E P	P	P	P	P	P	P
82	711613114095	PRANESH M	P	P	P	P	P	P
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121	711613114145	THARUNESWAR M	T	T	T	T	T	T
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124	711613114148	VIGNESH M	V	V	V	V	V	V
125	711613114149	VIGNESH M	V	V	V	V	V	V
126	711613114150	VIGNESH P	V	V	V	V	V	V



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127	711613114151	VIGNESH P S	Vign	Vign	Vign	Vign	Vign	Vign
128	711613114152	VIGNESH S	Vign	Vign	Vign	Vign	Vign	Vign
129	711613114155	VIJAY P (1996-05-17)	Vijay	Vijay	Vijay	Vijay	Vijay	Vijay
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134	711613114160	VJSHNU VIYAS, R	Vjshnu	Vjshnu	Vjshnu	Vjshnu	Vjshnu	Vjshnu
135	711613114161	YUVARAJ A	Yuvaraj	Yuvaraj	Yuvaraj	Yuvaraj	Yuvaraj	Yuvaraj
136	711613114301	ABILASH A M	Abilash	Abilash	Abilash	Abilash	Abilash	Abilash
137	711613114302	AJIN J	Ajin	Ajin	Ajin	Ajin	Ajin	Ajin
138	711613114309	HARI PRASANTH K V	Hari	Hari	Hari	Hari	Hari	Hari
139	711613114310	HARI PRASANTH M	Hari	Hari	Hari	Hari	Hari	Hari
140	711613114311	JENISH R	Jenish	Jenish	Jenish	Jenish	Jenish	Jenish
141	711613114312	JOHN BRIGHT SINGH M	John	John	John	John	John	John
142	711613114313	JOHNSON EBINEZER R	Johnson	Johnson	Johnson	Johnson	Johnson	Johnson
143	711613114314	KARTHIKEYAN A	Karthi	Karthi	Karthi	Karthi	Karthi	Karthi
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146	711613114317	LAKSHMI NARAYANAN P	Lakshmi	Lakshmi	Lakshmi	Lakshmi	Lakshmi	Lakshmi
147	711613114318	MASOOK RAHMAN M	Masook	Masook	Masook	Masook	Masook	Masook
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150	711613114505	ARUNKUMAR G	Arunkumar	Arunkumar	Arunkumar	Arunkumar	Arunkumar	Arunkumar
151	711613114506	RANJITH KUMAR N	Ranjith	Ranjith	Ranjith	Ranjith	Ranjith	Ranjith
152	711613114507	BHUVANESH KUMAR K S	Bhuvanesh	Bhuvanesh	Bhuvanesh	Bhuvanesh	Bhuvanesh	Bhuvanesh

Vign
20/9/16
Course Coordinator

A. Jey-
HOD/MECH

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Department of Mechanical Engineering

One Page Report

Name of the Course :SAE Dismantling & Assembling Workshop Academic Year :2016-2017

Course Code :K16A501

Course Coordinator :Mr.R.S.Prakash, AP/MECH

I hereby affirm that the entire course contents listed in the course syllabus of the add on course "**SAE Dismantling & Assembling Workshop**" has educated to the students as the part of prescribed co-curricular activities through add on program.


At the end of course the students able to understand various IC Engines component & its operation. The students can able to Dismantle and Assemble various parts IC Engine by proper methods.

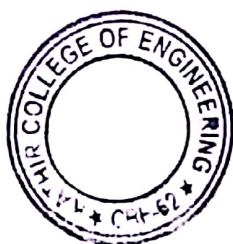
I confirmed that the add on course titled "**SAE Dismantling & Assembling Workshop**" has been conducted and course delivery along with attendance and test performance of the students was recorded.

I confirmed that all the students are actively attended this add on course and performed well throughout the program and eligible students received the certificate.


Course Coordinator


HoD/MECH


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CERTIFICATE OF COMPLETION

This is to certify that *Mr ABISH FLEMING DHAS V* of final year Mechanical Engineering was successfully completed the add-on course in SAE Dismantling & Assembling Workshop conducted by the Department of Mechanical Engineering in the academic year 2016- 2017 during 26.09.2016 to 30.09.2016.

Course Co-ordinator



HoD

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CERTIFICATE OF COMPLETION

This is to certify that *Mr ABISH C S* of final year Mechanical Engineering was successfully completed the add-on course in SAE Dismantling & Assembling Workshop conducted by the Department of Mechanical Engineering in the academic year 2016- 2017 during 26.09.2016 to 30.09.2016.

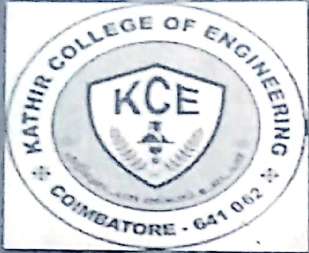

Course Co-ordinator



A. J. J.
HoD


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Principals
Principal



**KATHIR COLLEGE OF ENGINEERING
WISDOM TREE, NEELAMBUR,
COIMBATORE – 641 062**

Conducted by

**Mr. P.Suresh,
Technical Director,
S S Technovation,
Coimbatore**

Dates:

15-09-2016 to 19-09-2016

11:00 am - 5:00 pm

Venue:

**Seminar Hall, KCE,
Neelambur**

**Faculty Coordinator
Mr.R.S.Prakash**

**HoD/Mechanical
Prof. A.R.Suresh**

**Block In-Charge
Dr. Vaikundaselvan**

**Principal
Dr. P.Banumathi**



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Date :01-09-16

To

The Principal,

Kathir College of Engineering

Coimbatore – 641062

Respected Sir,

Sub : Permission to conduct add on course – Reg

We have planned to conduct the add on course for the Third year MECHANICAL students from 15-09-16 to 19-09-16.

Name of the Course : Advanced Manufacturing System

Course Code : K16A502

Course Coordinator : Mr.R.S.Prakash

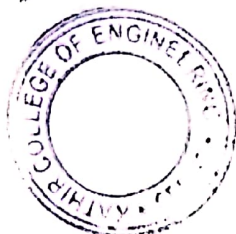
So kindly permit us to conduct the above course and to utilize the class room and MT lab.


Thanking you


19/9/16
Course Coordinator


HoD/MECH


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Circular

Sub : Add on Course

It is planned to conduct the add on course for the third year Mechanical Engineering students.

The add on course are the certification course which are designed and offered by our department for the benefit of the students. Add on course will be conducted at free of cost and based on the performance of the participated students, the merit certificate will be issued after the successful completion of the course.

Students who are willing to attend the below mentioned course can enroll their names to the course coordinator.

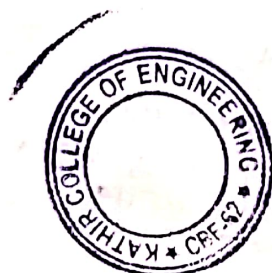
Name of the Add on Course	Course Coordinator
Advanced Manufacturing System	Mr.R.S.Prakash, AP/MECH
Commencement of Course from 15-09-16 to 19-09-16 Time : 11.00 am – 6.00 pm	

h s r
29/9/16
Course Coordinator

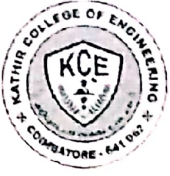
M. Kew
IAQC Coordinator

A. J. S.
HoD/MECH

B. S. S. S.
Principal



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DEPARTMENT OF MECHANICAL ENGINEERING

Course Syllabus

Name of the Course :Advanced Manufacturing System

Course Code :K16A502

Course Coordinator :Mr.R.S.Prakash,AP/MECH

Total Hours : 30 hours

Academic Year :2016-2017

Objective:

- To give exposure to Advanced Manufacturing System process and tools.
- To expose the students to Quality Control and Support Systems.

Unit -1 OVER VIEW OF MANUFACTURING AND AUTOMATION

Production systems, Automation in production systems, Automation principles and strategies, Manufacturing operations, production facilities. Basic elements of an automated system, levels of automation.

Unit – II MANUFACTURING SYSTEMS AND AUTOMATED PRODUCTION LINES

Manual Assembly lines, line balancing Algorithms, Mixed model Assembly lines, Alternative Assembly systems. Automated production lines, Applications, Analysis of transfer lines.

Unit – III AUTOMATED ASSEMBLY SYSTEMS

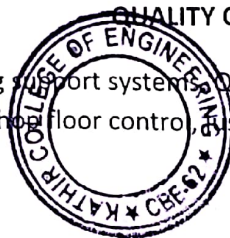
Fundamentals, Analysis of Assembly systems. Cellular manufacturing, part families, cooling, production flow analysis.

Unit – IV MATERIAL HANDLING AND IDENTIFICATION TECHNOLOGIES

Storage systems, performance and location strategies, Automated storage systems, AS/RS, types. Automatic identification methods, Barcode technology.

Unit – V QUALITY CONTROL AND SUPPORT SYSTEMS

Manufacturing support systems, Quality function deployment, computer aided process planning, concurrent engineering, shop floor control, Just in time and lean production.



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Course outcomes

- Able to gain knowledge on Advanced Manufacturing System process and tools.
- Students able to apply Quality Control and Support Systems.

References:

1. Automation, production systems and computer integrated manufacturing-Mikell.PGroover-PHI-3rd edition-2012.
2. CAD-CAM-CIM- P. Radha Krishnan & S. Subrahmanyarn and Raju-New Age International Publishers-2003.

K. S. K.
2/9/16
Course Coordinator

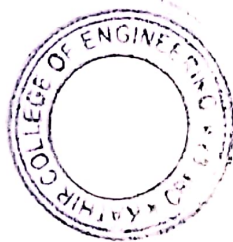
M. Ram
IAQC Coordinator

A. Jay
HoD/MECH

P. Ramakrishna
Principal

BB

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Department of Mechanical Engineering

Attendance Sheet

Name of the Course :Advanced Manufacturing System

Course Code :K16A502

Course Coordinator :Mr.R.S.Prakash, AP/MECH

Total Hours :30 hours

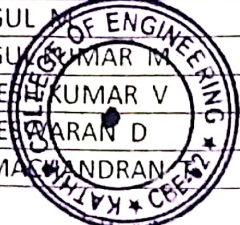
Academic Year : 2016-2017

S.No	Reg no	Name of the student	15	16	17	18	19	R&T
1	711614114001	AGHIL P A	A	A	A	A	A	A
2	711614114002	AJAI GODWIN A	A	A	A	A	A	A
3	711614114003	AJITH KUMAR K	A	A	A	A	A	A
4	711614114004	AKHIL K P	A	A	A	A	A	A
5	711614114005	ANKIT S	A	A	A	A	A	A
6	711614114006	ARCHUDAN R	A	A	A	A	A	A
7	711614114007	ARJUN B	A	A	A	A	A	A
8	711614114008	ARULMURUGAN V	A	A	A	A	A	A
9	711614114009	ARUN K	A	A	A	A	A	A
10	711614114010	ARUNACHALAM M	A	A	A	A	A	A
11	711614114011	ARUNKUMAR. C	A	A	A	A	A	A
12	711614114012	ARUN KUMAR B	A	A	A	A	A	A
13	711614114015	ARUN PANDIAN C	A	A	A	A	A	A
14	711614114016	ARUN P ASHOK	A	A	A	A	A	A
15	711614114017	ARUN SHARMA B	A	A	A	A	A	A
16	711614114018	ARVINTH T S K	A	A	A	A	A	A
17	711614114020	AYYASAMY R	A	A	A	A	A	A
18	711614114021	BALAGANESAN P	A	A	A	A	A	A
19	711614114022	BALAJI M	A	A	A	A	A	A
20	711614114023	DANIEL RAJ A	A	A	A	A	A	A
21	711614114024	DEEPAK V	A	A	A	A	A	A
22	711614114025	DHANAPAL N	A	A	A	A	A	A
23	711614114026	DHANASEKAR P	A	A	A	A	A	A
24	711614114027	DHANA SEKAR N	A	A	A	A	A	A
25	711614114028	DHARANEESWARAN M	A	A	A	A	A	A
26	711614114029	DHINAKAR S.	A	A	A	A	A	A
27	711614114030	DINESH D	A	A	A	A	A	A
28	711614114033	EZHUMALAI M	A	A	A	A	A	A
29	711614114034	FELIX R	A	A	A	A	A	A
30	711614114035	GANAPATHY P M	A	A	A	A	A	A
31	711614114036	GOKUL PARAMBATH NATH	A	A	A	A	A	A
32	711614114037	GOWTHAM S	A	A	A	A	A	A



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33	711614114039	GURU VIGNESH S R	g	g	g	g	g	g
34	711614114040	HARIHARAN P J	H	H	H	H	H	H
35	711614114041	JAGATHESH KUMAR S	J	J	J	J	J	J
36	711614114043	JAYA PRAKASH M	J	J	J	J	J	J
37	711614114044	JAYARAM D	J	J	J	J	J	J
38	711614114045	JEBESH J	J	J	J	J	J	J
39	711614114046	JEYA PRASATH M	J	J	J	J	J	J
40	711614114047	JOEL ANDREW J	J	J	J	J	J	J
41	711614114048	KABILESH T	K	K	K	K	K	K
42	711614114049	KANIVARMAN V	K	K	K	K	K	K
43	711614114050	KARMUHILAN M	K	K	K	K	K	K
44	711614114051	KARNAN S	K	K	K	K	K	K
45	711614114052	KARTHICK RAJA S	K	K	K	K	K	K
46	711614114053	KARTHIK M	K	K	K	K	K	K
47	711614114056	KARTHIKEYAN N	K	K	K	K	K	K
48	711614114057	KARTHIK RAJ G	K	K	K	K	K	K
49	711614114058	KAVIN KUMAR K.	K	K	K	K	K	K
50	711614114059	KAVIYARASU N	K	K	K	K	K	K
51	711614114060	KISHORE R (1996-11-27)	K	K	K	K	K	K
52	711614114063	LOURD FERNANDEZ S	L	L	L	L	L	L
53	711614114064	MADHU NISANTH B	M	M	M	M	M	M
54	711614114065	MANIYARASAN R	M	M	M	M	M	M
55	711614114066	MANOJ KUMAR M.	M	M	M	M	M	M
56	711614114067	MANOOJKUMAAR K	M	M	M	M	M	M
57	711614114068	MANU K	M	M	M	M	M	M
58	711614114072	MATHIVANAN R	M	M	M	M	M	M
59	711614114073	MEENA ANITHA A	M	M	M	M	M	M
60	711614114074	MITHRUNANDHAN B	M	M	M	M	M	M
61	711614114075	MOHAN KUMAR R	M	M	M	M	M	M
62	711614114076	MUKILAN M	M	M	M	M	M	M
63	711614114077	MUKILAN S	M	M	M	M	M	M
64	711614114083	NAVEEN G	N	N	N	N	N	N
65	711614114084	NAVEEN V	N	N	N	N	N	N
66	711614114086	NAVEEN RAJ V	N	N	N	N	N	N
67	711614114087	NIRMALKUMAR K	N	N	N	N	N	N
68	711614114088	PONNARASAN R	P	P	P	P	P	P
69	711614114089	PONSINGH J	P	P	P	P	P	P
70	711614114090	POOVARASAN K	P	P	P	P	P	P
71	711614114091	PRABHAKARAN K S	P	P	P	P	P	P
72	711614114092	PRADEEP P	P	P	P	P	P	P
73	711614114093	PRANAV SUDHAN A	P	P	P	P	P	P
74	711614114097	RAGHUSARAVANAN E	R	R	R	R	R	R
75	711614114098	RAGUL M	R	R	R	R	R	R
76	711614114099	RAGUL KUMAR M	R	R	R	R	R	R
77	711614114100	RAJESH KUMAR V	R	R	R	R	R	R
78	711614114101	RAJESHVARAN D	R	R	R	R	R	R
79	711614114102	RAMANANDRAN	R	R	R	R	R	R



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COMBATOR-52.

80	711614114103	RAMESH ARAVINTH S	<i>[Signature]</i>	<i>[Signature]</i>	<i>[Signature]</i>	<i>[Signature]</i>	<i>[Signature]</i>	<i>[Signature]</i>
81	711614114104	RANJITH KUMAR R	<i>[Signature]</i>	<i>[Signature]</i>	<i>[Signature]</i>	<i>[Signature]</i>	<i>[Signature]</i>	<i>[Signature]</i>
82	711614114105	RICHARDSON A	<i>[Signature]</i>	<i>[Signature]</i>	<i>[Signature]</i>	<i>[Signature]</i>	<i>[Signature]</i>	<i>[Signature]</i>
83	711614114106	SABARI S	<i>[Signature]</i>	<i>[Signature]</i>	<i>[Signature]</i>	<i>[Signature]</i>	<i>[Signature]</i>	<i>[Signature]</i>
84	711614114107	SACHIN M K	<i>[Signature]</i>	<i>[Signature]</i>	<i>[Signature]</i>	<i>[Signature]</i>	<i>[Signature]</i>	<i>[Signature]</i>
85	711614114108	SAKTHIKUMAR B	<i>[Signature]</i>	<i>[Signature]</i>	<i>[Signature]</i>	<i>[Signature]</i>	<i>[Signature]</i>	<i>[Signature]</i>
86	711614114109	SANTHOSH S	<i>[Signature]</i>	<i>[Signature]</i>	<i>[Signature]</i>	<i>[Signature]</i>	<i>[Signature]</i>	<i>[Signature]</i>
87	711614114115	SATHISHKUMAR S	<i>[Signature]</i>	<i>[Signature]</i>	<i>[Signature]</i>	<i>[Signature]</i>	<i>[Signature]</i>	<i>[Signature]</i>
88	711614114116	SENTHIL KUMAR N	<i>[Signature]</i>	<i>[Signature]</i>	<i>[Signature]</i>	<i>[Signature]</i>	<i>[Signature]</i>	<i>[Signature]</i>
89	711614114117	SHANMUGAPRIYAN J	<i>[Signature]</i>	<i>[Signature]</i>	<i>[Signature]</i>	<i>[Signature]</i>	<i>[Signature]</i>	<i>[Signature]</i>
90	711614114118	SHIJIN S	<i>[Signature]</i>	<i>[Signature]</i>	<i>[Signature]</i>	<i>[Signature]</i>	<i>[Signature]</i>	<i>[Signature]</i>
91	711614114119	SIVA KUMAR S	<i>[Signature]</i>	<i>[Signature]</i>	<i>[Signature]</i>	<i>[Signature]</i>	<i>[Signature]</i>	<i>[Signature]</i>
92	711614114120	SIVAPRAKASH S	<i>[Signature]</i>	<i>[Signature]</i>	<i>[Signature]</i>	<i>[Signature]</i>	<i>[Signature]</i>	<i>[Signature]</i>
93	711614114121	SIVAPRRASATH S V	<i>[Signature]</i>	<i>[Signature]</i>	<i>[Signature]</i>	<i>[Signature]</i>	<i>[Signature]</i>	<i>[Signature]</i>
94	711614114122	SIVARAJ A	<i>[Signature]</i>	<i>[Signature]</i>	<i>[Signature]</i>	<i>[Signature]</i>	<i>[Signature]</i>	<i>[Signature]</i>
95	711614114301	ANBAZHAGAN N	<i>[Signature]</i>	<i>[Signature]</i>	<i>[Signature]</i>	<i>[Signature]</i>	<i>[Signature]</i>	<i>[Signature]</i>
96	711614114302	DHANABALAN N	<i>[Signature]</i>	<i>[Signature]</i>	<i>[Signature]</i>	<i>[Signature]</i>	<i>[Signature]</i>	<i>[Signature]</i>
97	711614114303	GOWTHAM V	<i>[Signature]</i>	<i>[Signature]</i>	<i>[Signature]</i>	<i>[Signature]</i>	<i>[Signature]</i>	<i>[Signature]</i>
98	711614114304	GOWTHAMAN S	<i>[Signature]</i>	<i>[Signature]</i>	<i>[Signature]</i>	<i>[Signature]</i>	<i>[Signature]</i>	<i>[Signature]</i>
99	711614114316	SAI VISHNU G	<i>[Signature]</i>	<i>[Signature]</i>	<i>[Signature]</i>	<i>[Signature]</i>	<i>[Signature]</i>	<i>[Signature]</i>
100	711614114317	SAKTHIVEL P	<i>[Signature]</i>	<i>[Signature]</i>	<i>[Signature]</i>	<i>[Signature]</i>	<i>[Signature]</i>	<i>[Signature]</i>
101	711614114318	SANTHOSH V	<i>[Signature]</i>	<i>[Signature]</i>	<i>[Signature]</i>	<i>[Signature]</i>	<i>[Signature]</i>	<i>[Signature]</i>
102	711614114320	SELVAKUMAR K	<i>[Signature]</i>	<i>[Signature]</i>	<i>[Signature]</i>	<i>[Signature]</i>	<i>[Signature]</i>	<i>[Signature]</i>

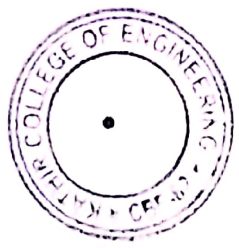
[Signature]
12/9/16
Course Coordinator

[Signature]
HOD/MECH

[Signature]
Principal

[Signature]

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Department of Mechanical Engineering

One Page Report

Name of the Course :Advanced Manufacturing System

Academic Year :2016-2017

Course Code :K16A502

Course Coordinator :Mr.R.S.Prakash, AP/MECH

I hereby affirm that the entire course contents listed in the course syllabus of the add on course "**Advanced Manufacturing System**" has educated to the students as the part of prescribed co-curricular activities through add on program.

By entering into the course student gained knowledge on Advanced Manufacturing System process and various tools used. Finally, the students are able to apply Quality Control and Support Systems in Manufacturing Engineering.

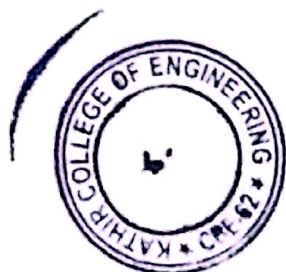
I confirmed that the add on course titled "**Advanced Manufacturing System**" has been conducted and course delivery along with attendance and test performance of the students was recorded.


I confirmed that all the students are actively attended this add on course and performed well throughout the program and eligible students received the certificate.


Course Coordinator


HoD/MECH


Principal




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CERTIFICATE OF COMPLETION

This is to certify that *Mr AGHIL P A* of Third year Mechanical Engineering was successfully completed the add-on course in Advanced Manufacturing System conducted by the Department of Mechanical Engineering in the academic year 2016 - 2017 during 15.09.2016 to 19.09.2016.

rsr
Course Co-ordinator



A.S.
HoD

AS
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NEELAMBUR,
COIMBATORE-62.

Prasanna P.
Principal



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CERTIFICATE OF COMPLETION

This is to certify that *Mr AJAI GODWIN A* of Third year Mechanical Engineering was successfully completed the add-on course in **Advanced Manufacturing System** conducted by the Department of **Mechanical Engineering** in the academic year 2016 - 2017 during 15.09.2016 to 19.09.2016.

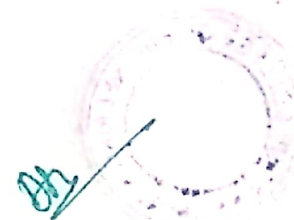
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Course Co-ordinator



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HoD



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COIMBATORE-62.

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Principal



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Permission Letter

Date:27.10.2016

From

Mr.R.Poongothai

Assistant Professor

Department of Science and Humanities

Coimbatore-641062

To

The Principal

Kathir College of Engineering,

Coimbatore – 641062.

Respected Sir,

Sub: Permission to conduct add on course – Reg

We have planned to conduct the add on course for the first-year students. The course is planned for 30 hours. The teaching Classes are planned to conduct from 01.11.2016 to 05.11.2016. Kindly permit us to conduct this program.

Thanking you


Course Coordinator


HoD/S&H




Principal

PRINCIPAL

KATHIR COLLEGE OF ENGINEERING,
NEELAMBUR,
COIMBATORE-62.




Dr. R. UDAIYAKUMAR, ME., Ph.D.,
Principal
Kathir College of Engineering,
"Wisdom Tree" Avinashi Road,
Neelambur, Coimbatore - 641 062.



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DATE: 28.10.2016

CIRCULAR


VALUE ADDED COURSE IN CHEMISTRY

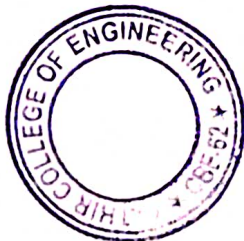
The Department of Science and Humanities has planned to conduct value added course in the topic "Structures and Bonding of Organic chemistry" on 01.11.2016 to 05.11.2016 for the first-year students. The first class will be scheduled on Nov 1st 2016 at 9.30 am. The Interested students can give their willingness to course coordinator Mr.R.Poongothai, Assistant Professor, Department of chemistry on or before 30.10.2016.



Course Coordinator


IQAC


HoD/S&H


Principal
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COIMBATORE 62.




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Principal
Kathir College of Engineering
"Wisdom Tree" Avinashi Road,
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DEPARTMENT OF SCIENCE AND HUMANITIES

Add on Course Willingness List

ADD on 1 Coordinator : Mrs.V.S.Angulakshmi.,AP/Chemistry

ADD on 2 Coordinator : Mr.R.Poongothai.,AP/Chemistry

Academic Year: 2016-2017

S.No	Name of the Student	<u>ADD On 1-</u> Structures and bonding of Organic Chemistry	<u>ADD On 2 –</u> <u>Inorganic</u> <u>Chemistry</u>	Signature
1	AKLIAN S	✓		Aklian S
2	ANUSUYA R	✓		Anusuya R.
3	ARAVINTH V		✓	Aravindh
4	DEEPAK S		✓	Deepak S
5	GANESH R	✓		Ganesh R.
6	GOKULNATH R	✓		Gokulnath R.
7	JEEVANATHAN P	✓		Jeevanathan P.
8	KARTHIK KUMAR R		✓	Karthik Kumar R.
9	KEERTHI VASAN V S		✓	Keerthi Vasan V S
10	MOHANRAJ G	✓		Mohanraj G.
11	NANDHAGOPAL S			Nandhagopal S.
12	PRADEEPAKUMAR M	✓		Pradeep Kumar M.
13	PRAKASH K		✓	Prakash K.
14	SARATHKUMAR K		✓	Sarath Kumar K.
15	SATHIYA PRAKASH G	✓		Sathiyaprakash G.
16	SRIDHAR S		✓	Sridhar S.

17	SUDERSHANAN T J			Sudershanan T.J
18	AKAL DHARANI S	✓		Akal
19	ANANDHA KUMAR S		✓	Anandhan
20	ANISHKUMAR S		✓	Anish
21	DHARANI P	✓		Dharani P
22	HARUN RASEETH A	✓		Harun Raseeth A
23	JAMES PANDIAN R	✓		James
24	JERALD J	✓		Jerald
25	KANNADASAN M	✓		Kannadasan
26	MOHANRAM P		✓	Mohanram P
27	NANTHINI M		✓	Nanthini
28	SAKTHIVEL P	✓		Sakthivel P
29	ANANTHA VALLI B	✓		Anantha Valli B
30	APARNA B		✓	Aparna B
31	ARUN KUMAR A	✓		Arun Kumar A
32	BAGYALAKSHMI S	✓		Bagyalakshmi S
33	CHANDRU A		✓	Chandru A
34	DACHINAMOORTHY S	✓		Dachinamoorthy S
35	DHINESH KUMAR I	✓		Dinesh I
36	ELAKHIYA M	✓		Elakhiya M
37	GAYATHIRI M		✓	Gayathiri M
38	GAYATHRI V	✓		Gayathri V
39	HARIDASS K			Haridass K
40	JAYANTHI P	✓		P. Jayanthi
41	JEBA S	✓		Jeba S
42	MAHESWARI S		✓	Maheswari S

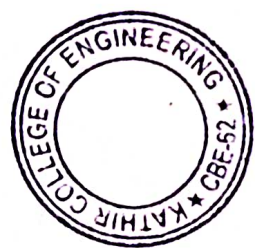
43	MYTHILI P		✓	Mythili P
44	NANDHINI M	✓		Nandhini
45	NISANTHAKUMAR R			Nanthakumar
46	NIVETHA S		✓	S. Nivetha
47	PAVITHRA S B	✓		Pavithra S B
48	POONKODI P		✓	Poonkodi P
49	PRIYADHARSHINI K K	✓		Priyadharshini K.K
50	RAGUL GANDHI B			Ragul Gandhi B
51	RANJITH R	✓		Ranjith R
52	RAVI VARMA P		✓	Ravi Varma P
53	SANDHIYA R	✓		Sandhya R
54	SHAFURUL HASEENA H	✓		Shafurul Haseena H
55	SUBRADEEPAN A	✓		Subradeepan A
56	SUREKA R		✓	Sureka R
57	YOGESHWARI S		✓	Yogeshwari S


Course Coordinator


HoD/S&H


Principal

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DEPARTMENT OF SCIENCE AND HUMANITIES

Course Syllabus

Name of the Course: Structures and bonding of Organic Chemistry

Course Code : K16A701

Course Coordinator: Mr.R.Poongothai., Assistant Professor/Chemistry

Total Hours :30 hours

Academic Year: 2016-2017

UNIT-I CHEMICAL THERMODYNAMICS

Introduction, Terminology in thermodynamics –System, Surrounding, State and Path functions, Extensive and intensive properties. Laws of thermodynamics – I and II laws- Need for the II law. Enthalpy, Entropy, Gibbs free energy, Helmholtz free energy - Spontaneity and its criteria.

UNIT-II TECHNOLOGY OF WATER

Water quality parameters – Definition and expression. Analysis of water. Boiler feed water and Boiler troubles-Scales and sludges, Caustic embrittlement, Priming and Foaming and Boiler corrosion. Water softening processes – Internal and external conditioning – Lime soda, Zeolite, Demineralization methods. Domestic water treatment.

UNIT-III ELECTROCHEMISTRY AND ENERGY STORAGE DEVICES

Types of conductance and its Measurement. Electrochemical cells – Electrodes and electrode potential, Nernst equation – EMF measurement and its applications. Types of electrodes - Saturated calomel electrode-Quinhydrone electrode – Determination of PH using these electrodes. Reversible and irreversible cells– Fuel cells.

UNIT-IV CORROSION AND PROTECTIVE COATING

Introduction–Causes of Corrosion–Consequences- Factors affecting corrosion - Chemical corrosion and Electrochemical corrosion. Methods of corrosion control – corrosion inhibitors, Sacrificial anode and Impressed current cathodic protection. Protective coatings- Metallic coatings- Chemical conversion coatings-paints-Constituents and functions.

UNIT-V POLYMERS AND COMPOSITES

Monomers – Functionality – Degree of polymerization-Tacticity. Polymers – Classification, Conducting Polymers, Biodegradable polymers- Properties and applications. Plastics – Thermoplastics and thermosetting plastics – Compression molding, injection molding and extrusion processes. Polymer composites -particle reinforced-fiber reinforced-structural composites-examples.

Text books

1. S.Nanjundan & C.SreekuttanUnnithan, "Applied Chemistry", Sreelakshmi Publications, (2007)
2. Dr.R.Sivakumar and Dr.N.Sivakumar" Engineering Chemistry" Tata McGraw Hill Publishing Company Ltd, Reprint 2013.


References

1. P.C. Jain & Monika Jain, "Engineering Chemistry", Dhanpat Rai publishing Co., (Ltd.) (2013).
2. J. C. Kuriacose & J. Rajaram, "Chemistry in Engineering & Technology", Tata Mc Graw Hill (1996).
3. B.R.Puri, L.R.Sharma & M.S.Pathania, "Principles of Physical Chemistry", Vishal publishing co., (2013).


Course Coordinator



IQAC Coordinator


HoD/S&H


Principal

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DEPARTMENT OF SCIENCE AND HUMANITIES

Course Delivery

Name of the Course: Structures and bonding of Organic Chemistry

Course Code : K16A701

Course Coordinator: Mr.R.Poongothai.,AP/Chemistry

Total Hours :30 Hours


Academic Year : 2016-2017

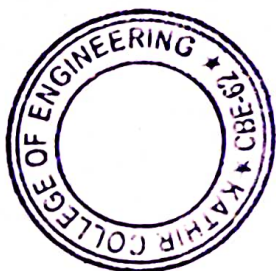
S.No	Topics Covered	Date of Delivery
1	Introduction -Terminology in thermodynamics –System - Surrounding	01.11.2016
2	State and Path functions, Extensive and intensive properties. Law of thermodynamics – I and II laws-Need for the II law.	
3	Gibbs free energy, Helmholtz free energy - Spontaneity and its criteria.	
4	Water quality parameters – Definition and expression. Analysis of water	02.11.2016
5	Boiler feed water and Boiler Troubles-Scales and sludges, Caustic embrittlement, Priming and Foaming and Boiler corrosion	
6	Water softening processes – Internal and external conditioning	
7	Lime soda, Zeolite, Demineralization methods. Domestic water treatment.	
8	Types of conductance and its Measurement. Electrochemical Cells.	03.11.2016
9	Electrodes and electrode potential, Nernst equation – EMF measurement and its applications.	
10	Types of electrodes - Saturated calomel electrode-Quinhydrone electrode.	
11	Determination of PH using these electrodes. Reversible and irreversible cells– Fuel cells.	
12	Introduction–Causes of Corrosion–Consequences- Factors affecting corrosion.	04.11.2016
13	Chemical corrosion and Electrochemical corrosion. Methods of corrosion control.	
14	corrosion inhibitors, Sacrificial anode and impressed current cathodic protection.	


	Protective coatings- Metallic coatings.	
15	Chemical conversion coatings-paints-Constituents and functions.	
16	Monomers – Functionality – Degree of polymerization-Tacticity.	
17	Polymers – Classification, Conducting Polymers, Biodegradable polymers- Properties and applications.	
18	Plastics – Thermoplastics and thermosetting plastics – Compression molding.	05.11.2016
19	Injection molding and extrusion processes.	
20	Polymer composites -particle reinforced-fiber reinforced-structural composites-examples.	


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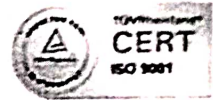

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Department of Science and Humanities

Students Attendance sheet

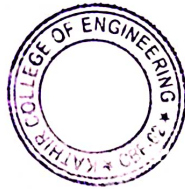
S.No.	Reg No	Name of the students	Department	Nov 1 st	Nov 2 nd	Nov 3 rd	Nov 4 th	Nov 5 th	Signature
1	711616103001	AKLIAN S	CIVIL	X	X	X	a	x	Aklian S
2	711616103002	ANUSUYA R	CIVIL	X	X	X	a	x	Anusuya R
3	711616103003	ARAVINTH V	CIVIL	X	X	X	X	X	Aravinth V
4	711616103004	DEEPAK S	CIVIL	X	X	X	X	X	Deepak S
5	711616103005	GANESH R	CIVIL	X	X	X	a	a	Ganesh R
6	711616103006	GOKULNATH R	CIVIL	X	X	X	X	X	Gokulnath R
7	711616103007	JEEVANATHAN P	CIVIL	X	X	X	X	X	Jeevanathan P
8	711616103008	KARTHIK KUMAR R	CIVIL	X	X	X	X	X	Karthik Kumar R
9	711616103009	KEERTHI VASAN V S	CIVIL	a	X	X	X	X	Keerthi
10	711616103010	MOHANRAJ G	CIVIL	a	X	X	X	X	Mohanraj G
11	711616103011	NANDHAGOPAL S	CIVIL	X	X	X	X	X	Nandhagopal S

12	711616103012	PRADEEPKUMAR M	CIVIL	X	X	X	a	X	Pradeep
13	711616103013	PRAKASH K	CIVIL	X	X	X	X	X	Prakash
14	711616103014	SARATHKUMAR K	CIVIL	X	a	X	X	X	Sarath
15	711616103015	SATHIYA PRAKASH G	CIVIL	X	X	X	X	X	Sathyap
16	711616103016	SRIDHAR S	CIVIL	X	X	X	a	X	Sridhar
17	711616103017	SUDERSHANAN T J	CIVIL	X	X	X	a	X	Sudershanan
18	711616105001	AKAL DHARANI S	EEE	X	X	X	a	X	Akal
19	711616105002	ANANDHA KUMAR S	EEE	X	X	a	X	a	Anandha
20	711616105003	ANISHKUMAR S	EEE	a	X	X	X	X	Anish
21	711616105004	DHARANI P	EEE	a	X	X	X	X	Dharani P
22	711616105005	HARUN RASEETH A	EEE	X	X	X	X	X	Harun
23	711616105006	JAMES PANDIAN R	EEE	X	X	X	X	X	James
24	711616105007	JERALD J	EEE	X	X	a	X	a	Jerald
25	711616105008	KANNADASAN M	EEE	X	X	X	X	X	Kannadasan
26	711616105009	MOHANRAM P	EEE	a	X	X	X	X	Mohanram
27	711616105010	NANTHINI M	EEE	X	X	X	X	X	Nanthini
28	711616105011	SAKTHIVEL P	EEE	X	X	X	X	X	Sakthivel
29	711616106001	ANANTHA VALLI B	ECE	X	X	X	X	X	Anantha
30	711616106002	APARNA B	ECE	X	X	X	X	X	Aparna

31	711616106003	ARUN KUMAR A	ECE	X	X	a	X	X	Arun K.
32	711616106004	BAGYALAKSHMI S	ECE	X	X	X	X	X	B. Lakshmi
33	711616106005	CHANDRU A	ECE	X	X	X	X	a	Chandru A
34	711616106006	DACHINAMOORTHY S	ECE	X	X	X	X	a	Dachinamoorthy S
35	711616106007	DHINESH KUMAR I	ECE	X	X	X	X	X	Dinesh. I
36	711616106008	ELAKHIYA M	ECE	X	X	X	X	X	Elakhiya. M
37	711616106009	GAYATHIRI M	ECE	X	X	X	X	X	Gayathiri
38	711616106010	GAYATHRI V	ECE	X	a	a	X	X	Gayathri
39	711616106011	HARIDASS K	ECE	X	X	X	X	X	Haridass
40	711616106012	JAYANTHI P	ECE	X	X	X	X	X	P Jayanthi
41	711616106013	JEBA S	ECE	X	X	X	X	X	Jeba S
42	711616106014	MAHESWARI S	ECE	X	X	X	X	X	Maheswari S
43	711616106015	MYTHILI P	ECE	a	X	a	X	X	Mythili P
44	711616106016	NANDHINI M	ECE	X	X	X	X	X	Nandhini M
45	711616106017	NISANTHAKUMAR R	ECE	X	X	X	X	X	Nisanthakumar R
46	711616106018	NIVETHA S	ECE	X	X	X	a	X	Nivetha S
47	711616106019	PAVITHRA S B	ECE	X	X	a	X	X	Pavithra S B
48	711616106020	POONKODI P	ECE	X	X	X	X	X	Poonkodi P
49	711616106021	PRIYADHARSHINI K K	ECE	X	X	X	X	a	Priyadharshini K K

50	711616106022	RAGUL GANDHI B	ECE	✓	✓	✓	✓	✓	R. S. S. S.
51	711616106023	RANJITH R	ECE	✓	✓	✓	✓	✓	Ranjith R
52	711616106024	RAVI VARMA P	ECE	✓	✓	✓	✓	✓	Ravi Varma P
53	711616106025	SANDHIYA R	ECE	✓	✓	✓	✓	✓	R. Sandhiya
54	711616106026	SHAFURUL HASEENA H	ECE	✓	✓	✓	✓	✓	Shafurul Haseena H
55	711616106027	SUBRADEEPAN A	ECE	✓	✓	✓	✓	✓	Subra Deepan A
56	711616106028	SUREKA R	ECE	✓	✓	✓	✓	✓	Sureka R
57	711616106029	YOGESHWARI S	ECE	✓	✓	✓	✓	✓	Yogeshwari S

R. S. S. S.
Course Coordinator



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Jee
HOD



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DEPARTMENT OF SCIENCE AND HUMANITIES

ONE PAGE REPORT

Name of the course: Structures and Bonding of Organic Chemistry

Course code :K16A701


Resource Person :Dr.Amirthaganesan.,Professor

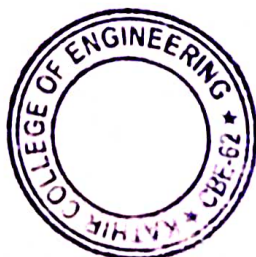
Program Schedule :01.11.2016 to 05.11.2016


The course of Structures and Bonding of Organic Chemistry had taken by Dr.Amirthaganesan.Students learnt about chemical thermodynamics properties and its laws. He elaborated the topic of electrochemistry and energy storage devices. He detailed about corrosion and protective coating and its functions. As value of this session students got the idea of Structures and Bonding of Organic Chemistry.


Course Coordinator


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Department of Science and Humanities

ADD-ON COURSE

Structures and Bonding of Organic Chemistry

DATE November 1, 2016 to
November 5, 2016

TIME 9:30am to 12:30pm

VENUE Seminar Hall

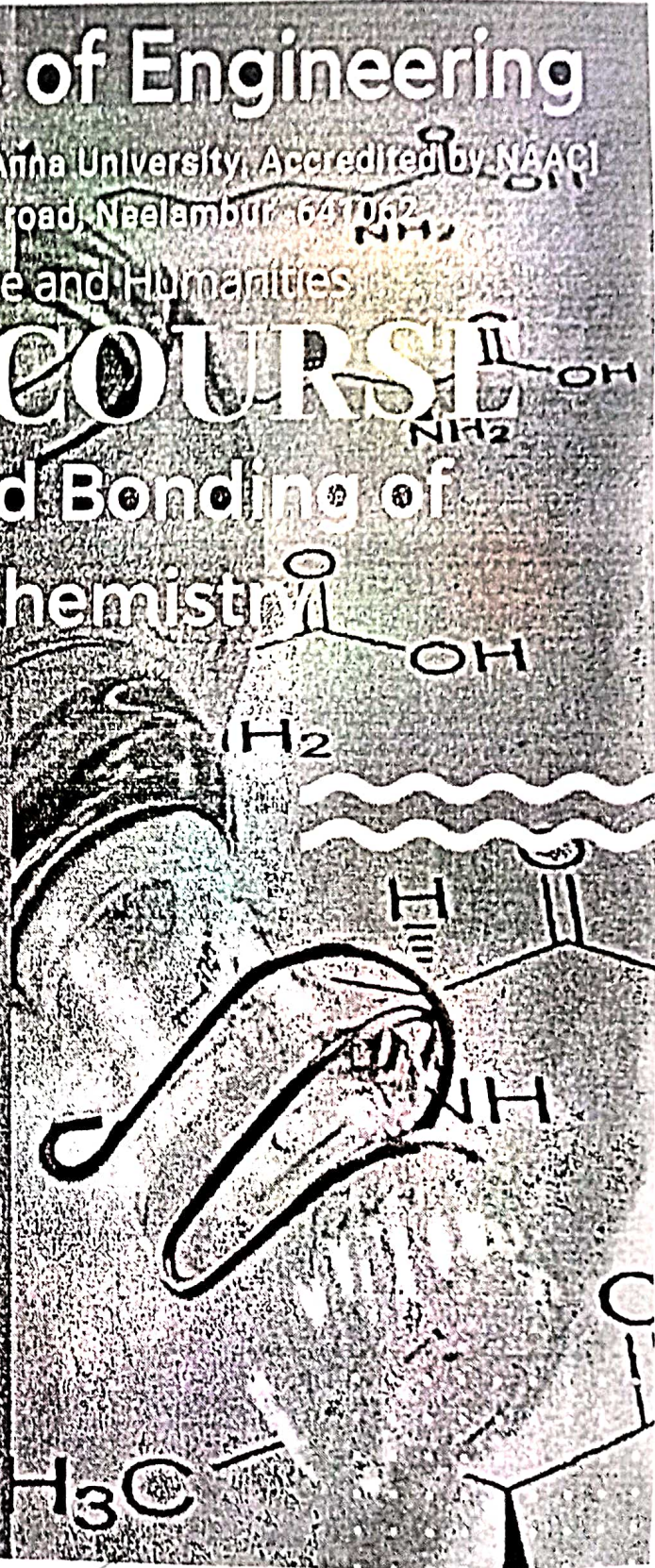
RESOURCE PERSON

Dr. Amirthaganesan

Professor in chemistry,

Department of Science and
Humanities,

Saveetha School Of Engineering
SIMATS, Chennai-602105





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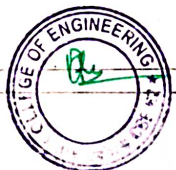
Certificate of Participation

This is to certify that Mr/Ms S. SRIDHAR (I CIVIL)
Department of SCIENCE AND HUMANITIES has attended a
Add-on Course on STRUCTURES AND BONDING OF ORGANIC CHEMISTRY
conducted from 01.11.2016 To 05.11.2016

R. Prasad
Course Coordinator

[Signature]
HOD

[Signature]
Principal





Kathir College of Engineering

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Date:09.03.2017

Permission Letter

To

The Principal,

Kathir College of Engineering,

Coimbatore – 641062.

Respected Sir,

Sub: Requesting for Permission to conduct value added program reg: -

We would like to conduct a value-added program on "Discrete Structures" for first year students. The programme is more useful for the students. The course is planned for 30 hours and teaching classes are planned to conduct from 13.03.2017 to 17.03.2017. Kindly permit us to conduct this programme and utilize the seminar hall.

Thanking you

Course Coordinator

HoD/S&H

Principal
PRINCIPAL

KATHIR COLLEGE OF ENGINEERING,
NEELAMBUR,
COIMBATORE-62.



Dr. R. UDAIYAKUMAR, ME., Ph.D.,
Principal
Kathir College of Engineering
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124



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DATE: 10.03.2017

CIRCULAR

VALUE ADDED COURSE IN MATHEMATICS

The Department of Science and Humanities has planned to conduct value added course in the topic "Discrete structures ". The first class will be scheduled on 13th March 2017. The Interested students can give their willingness to course coordinator on or before 11.03.2017.

Course Coordinator

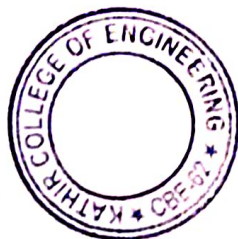
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Principal

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DEPARTMENT OF SCIENCE AND HUMANITIES

Add on Course Willingness List

ADD on 1 Coordinator :Dr.N.Ramya,AsP/Maths

ADD on 2 Coordinator :Mr.S.Saravanan.,AP/Maths

Academic Year : 2016-2017

S.No	Name of the Student	ADD On 1- Discrete Structures	ADD On 2- Fluid Dynamics	Signature
1	ABILASH C		✓	G. Abilash
2	ABIRAMI S	✓		Abirami S.
3	AKHIL KUMAR S			Akhil K.
4	ASWIN D S		✓	Aswin D S
5	BHARATHIKANNAN M	✓		Bharathikannan M
6	CHELLAPANDI C	✓		Chellapandi C
7	DINESH P	✓		Dinesh P
8	DIVYANAND D J	✓		Divyanand D J
9	GOKULAKRISHNAN M	✓		Gokulakrishnan M
10	GOKUL RAJ S	✓		Gokul Raj S
11	HARSHENI K		✓	Harsheni K
12	HEMALATHA C N		✓	Hemalatha C N
13	JEEVITHA C		✓	Jeevitha C
14	JOTHI M		✓	Jothi M
15	KARUNANITHI A	✓		Karunanithi A
16	KEERTHANA P			Keerthana P
17	KEERTHANA S		✓	Keerthana S
18	KEERTHANA PRAKASH B	✓		Keerthana Prakash B
19	KIRUBA N		✓	Kiruba N
20	MANIBHARATH T		✓	Manibharath T

21	MEHA DHANUSHYA L	✓		Meha Dhanushya L
22	MENAKA T	✓		Menaka T
23	MOHANRAJ V		M	Mohanraj V
24	MONISHA P	✓		Monisha P
25	MUTHUKOODALINGAM V	✓		Muthu
26	NAVEEN V		✓	Naveen V
27	NIZAMUDEEN M	✓		Nizam
28	PRAKASH KUMAR M	✓		Prakash
29	PREETHI R	✓		Preethi R
30	RAMYA A	✓		Ramya
31	SATHISH KUMAR T	✓		Sathish
32	SELVAKUMAR C		✓	Selvakumar
33	SHINEY PRINCY D		✓	Shiney Princy D
34	SHINY RACHEL M	✓		Shiny Rachel M
35	SIVASANKARI S	✓		Sivasankari S
36	THIRURAMAN G	✓		Thiruraman G
37	THIRUVENKETA KUMAR T	✓		Thiruvenketa Kumar T
38	UDHAYAN M	✓		Udhayan M
39	YASICKRAJU N		✓	Yasickraju N

AR

Course Coordinator

Jee

HoD/S&H

Ramesh

Principal

PRINCIPAL

KATHIR COLLEGE OF ENGINEERING
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Dr. R. Udaiyakumar

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DEPARTMENT OF SCIENCE AND HUMANITIES

Course syllabus

Name of the Course: Discrete Structure Course Code : K16A702

Course Coordinator: Dr.N.Ramya.,AP/Mathematics Total Hours :30 Hours

Academic Year: 2016-2017

Objective: Upon completion of this course, the students will be familiar with, Syntax and semantics of sets, propositional and predicate logic, Operations on discrete structures such as functions and relations, Idea of a group, a ring, an integral domain and aware of examples of these structures in mathematics. Application of graph theory, Graph mining.

Lecture - 1: SETS AND PROPOSITIONS: Sets: Introduction – Combinations of Sets – Finite and Infinite Sets – Mathematical Induction. Propositions: Logical Connectives – Conditional and Biconditionals –Well Formed Formulas Tautologies –Logical Equivalences and Predicate logic.

Lecture - 2: RELATION AND FUNCTIONS: Relations: Introduction-A Relational Model for Data Bases- -Equivalence relations and Partitions- Partial ordering relations and Lattices-Chains - Compatible relation Functions: Composition of functions-Invertible Functions-Recursive Functions- Hashing-Pigeonhole Principle.

Lecture - 3: GROUPS AND RINGS: Introduction-Groups-Subgroups-Generators and evaluation of powers-Cosets and Lagrange's Theorem Permutation groups and Normal subgroups-Rings, Integral domains and fields-rings.

Lecture - 4: GRAPH THEORY: Introduction-Basic Terminology-Multigraphs and Weighted graphs- Digraphs and Relations-Representation of graphs-operations on graphs-Paths and Circuits-Graph traversals-shortest paths in weighted graphs-Euclidian paths and circuits-Hamiltonian Paths and Circuits-The Traveling Salesperson Problem.

Lecture - 5: GRAPH MINING: Patterns in static graph –Patterns in Evolving graph – Patterns in weighted graph – structure of specific graph world wide web – random graph models.

Course outcomes:

Upon completion of the course, the student will be able to

CO1: Verify the correctness of an argument using propositional and predicate logic.

CO2: Perform operations on discrete structures such as sets, functions and relations.

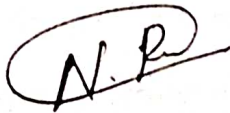
CO3: Use the concepts of advanced algebra such as groups and rings in applied contexts.

CO4: Use graph as a powerful modelling tool to solve practical problems in various fields.

CO5: Use graph mining as a powerful pattern tool to derive valuable information.

REFERENCE BOOKS:

1. Krishnaiyan Thulasiraman, Subramanian Arumugam, Andreas Brandstädt, Takao Nishizeki, "Handbook of Graph Theory, Combinatorial Optimization, and Algorithms", CRC press,2016.
2. Donald binder,Martin Erickson , "A Student's Guide To The Study, Practice, and Tools of Modern Mathematics", CRC Press,2011.



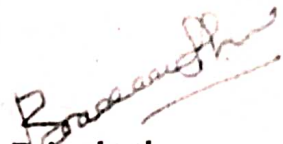
Course Coordinator




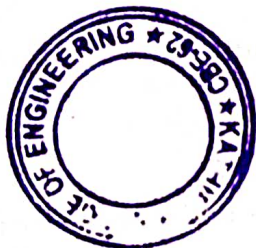
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DEPARTMENT OF SCIENCE AND HUMANITIES

Course Delivery

Name of the Course : Discrete Structures

Course Code : K16A702

Course Coordinator: Dr.N. Ramya., AsP/Mathematics

Total Hours :30 Hours

Academic Year : 2016-2017

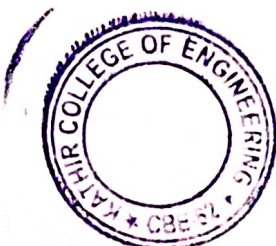
S.No	Topics Covered	Date of Delivery
1	Sets - Introduction – Combinations of Sets – Finite and Infinite Sets.	13.03.2017
2	Mathematical Induction. Propositions: Logical Connectives – Conditional and Biconditionals.	
3	Well Formed Formulas Tautologies –Logical Equivalences and predicate logic.	
4	Relations - Introduction-A Relational Model for Data Bases-Equivalence relations and Partitions - Partial ordering relations.	14.03.2017
5	Lattices-Chains - Compatible relation. Functions - Composition of functions-Invertible Functions.	
6	Recursive Functions-Hashing-Pigeonhole Principle.	
7	Introduction-Groups-Subgroups-Generators and evaluation of powers-Cosets.	15.03.2017
8	Lagrange's Theorem-Permutation groups and Normal Subgroups-Rings, Integral domains and fields-rings.	
9	Introduction-Basic Terminology-Multigraphs and Weighted Graphs-Digraph and Relations.	16.03.2017
10	Representation of graphs-operations on graphs-Paths and Circuits-Graph traversals-shortest paths in weighted graphs.	
11	Euclidian paths and circuits-Hamiltonian Paths and Circuits-The Traveling Salesperson Problems.	
12	Patterns in static graph –Patterns in Evolving graph – Patterns in weighted graph.	17.03.2017
13	Structure of specific graph - random graph models.	

Course Coordinator

HoD/S&H

Principal
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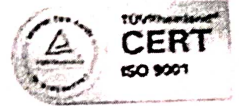
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Department of Science and Humanities

Students Attendance sheet

S.No.	Reg Number	Students Name	March13 th	March14 th	March15 th	March16 th	March17 th	Students Sign
1.	711616104001	ABILASH C	X	X	X	X	a	G. Abilash C
2.	711616104002	ABIRAMI S	X	X	X	X	X	Abirami S
3.	711616104003	AKHIL KUMAR S	X	a	X	X	X	Akhil Kumar S
4.	711616104004	ASWIN D S	X	X	X	X	X	Aswin D S
5.	711616104005	BHARATHIKANNAN M	X	X	X	X	X	Bharathikannan M
6.	711616104006	CHELLAPANDI C	X	X	X	X	X	Chellapandi C
7.	711616104007	DINESH P	X	X	X	X	X	Dinesh P
8.	711616104008	DIVYANAND D J	X	X	X	X	X	Divyanand D J
9.	711616104009	GOKULAKRISHNAN M	X	X	X	X	a	Gokulakrishnan M
10.	711616104010	GOKUL RAJ S	X	X	X	a	a	Gokul Raj S

30.	711616104032	RAMYA A	X	X	X	X	X	X	<i>[Signature]</i>
31.	711616104033	SATHISH KUMAR T	X	a	X	X	X	X	<i>[Signature]</i>
32.	711616104034	SELVAKUMAR C	X	X	X	X	a	a	<i>[Signature]</i>
33.	711616104035	SHINEY PRINCY D	X	X	X	X	X	X	<i>[Signature]</i>
34.	711616104036	SHINY RACHEL M	X	a	X	X	X	X	<i>[Signature]</i>
35.	711616104037	SIVASANKARI S	X	X	a	X	X	X	<i>[Signature]</i>
36.	711616104038	THIRURAMAN G	X	X	X	X	X	X	<i>[Signature]</i>
37.	711616104039	THIRUVENKETA KUMAR T	X	X	X	X	X	X	<i>[Signature]</i>
38.	711616104040	UDHAYAN M	X	X	X	X	X	a	<i>[Signature]</i>
39.	711616104042	YASICKRAJU N	X	X	a	X	X	a	<i>[Signature]</i>

[Signature]
Course Coordinator



[Signature]
Dr. R. UDAIYAKUMAR, ME., Ph.D.,
Principal
Kathir College of Engineering
"Wisdom Tree" Avinashi Road,
Neelambur, Coimbatore - 641 062.

[Signature]
HOD



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DEPARTMENT OF SCIENCE AND HUMANITIES

ONE PAGE REPORT

Name of the course: Discrete Structures

Course code : K16A702

Resource Person : Dr.M.Maria Arockia Raj , Associate Professor .

Program Schedule : 13.03.2017 to 17.03.2017

In the way of this session, Dr.M.Maria Arockia Raj takes the course of Discrete Structures . From this course everyone gained an idea about sets , functions , groups and rings . He described about graph theory and graph mining as a powerful pattern . The concept of advanced algebra has been explained.

39 students participated in the session and expressed that they could understand the concept of Discrete Structures .

Course Coordinator

HoD/S&H

Principal
PRINCIPAL

KATHIR COLLEGE OF ENGINEERING,
NEELAMBUR,
COIMBATORE -62.

Dr. R. UDAIYAKUMAR, ME., Ph.D.,

Principal

Kathir College of Engineering
"Wisdom Tree" Avinashi Road,
Neelambur, Coimbatore - 641 062.





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Department of Science and Humanities

ADD-ON COURSE DISCRETE STRUCTURES

- DATE : 13/03/2017 TO 17/03/2017
- TIME : 9:30AM TO 12:30PM & 2:00PM TO 4:00PM

● VENUE : IIT BOMBAY HALL

RESOURCE PERSON

Dr. M.Maria Arockia Raj

Associate Professor,

Department of
Mathematics,

K.Ramakrishnan College

of Technology
Trichy- 621112

Discrete Structure



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Certificate of Participation

This is to certify that Mr/Ms. N. KIRUBA - J CSE
Department of SCIENCE AND HUMANITIES has attended a
Add-on Course on "DISCRETE STRUCTURES"
conducted from 13/03/2017 To 17/03/2017

N.R

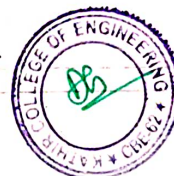
Course Coordinator

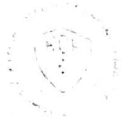
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HOD

[Signature]

Principal





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Date: 6.10.2016

To,

The Principal,
Kathir College of Engineering,
Coimbatore - 62.

Respected Mam ,

Sub: Permission to conduct Certificate program - Reg

We have planned to conduct a certificate Program for our II MBA students from 11.10.2016 to 15.10.2016.

Name of the Certificate Program	Course Co-ordinator
Data Analysis and Data Presentation	Mr.D.David Baburaj
Course duration 11.10.2016 to 15.10.2016 Time: 9.00am to 4.00pm	

Hence, I kindly request you to give us permission to conduct the course.

Thanking You,

Denny
Course Co-ordinator

Denny
HoD/MBA

[Signature]
Principal

[Signature]

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NEELAMBUR,
COIMBATORE-62.**





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Date: 6.10.2016

CIRCULAR

Sub: Certificate Program

It is planned to conduct certificate program for II MBA Students. The Certificate Program are short term certificate courses which are designed and offered by our department for the benefits of our students. Course will be conducted at free of cost and based on the performance of the participating students, the merit certificate will be issued after the successful completion of the course.

Name of the Certificate Program	Course Coordinator
Data Analysis and Data Presentation	Mr.D.David Baburaj
Course duration: 11.10.2016 to 15.10.2016	Time :9.00am to 4.00pm

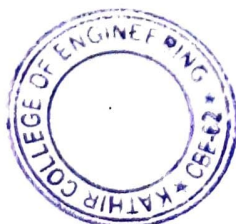
The students those who willing to attend the above-mentioned course can enroll their name to the course coordinator.

David
Course Co-ordinator

M. Kannas
IQAC Co-ordinator

Baron
HoD/MBA

Prasanna
Principal



Prasanna
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DEPARTMENT OF MANAGEMENT STUDIES CERTIFICATE PROGRAM – (II Year- III Semester) Academic Year: 2016 - 2017

Course Syllabus

Name of the Course: Data Analysis and Data Presentation	Course Code: K16A601
Course Co-Ordinator: Mr.D.David Baburaj	Total Hours: 30 Hours

OBJECTIVES:

- The course Aims to increase technical and managerial skill of the student.

Unit – I

Introduction to Excel

About Excel and Microsoft, uses of excel software-spreadsheet windowpane –Title Bar – Menu bar – Standard tool Bar – Formatting tool Bar – the Ribbon – File tab and backstage view – Formula Bar – Workbook window – Status Bar – Task Pane – Workbook and Sheets.

Unit – II

Columns and Rows

Selecting columns and rows – Changing Column width and row height – Auto fitting columns and rows – hiding unhiding columns & Rows – Inserting deleting columns and rows – cell – Address of cell-components of a cell-Format-value-Formula-Use of paste and paste special.

Unit – III

Functionality using Ranges

Using rangers selecting rangers – Entering information into a range – Using auto fill.

Unit –IV

Creating Formulas

Using Formulas Formula Function – Sum – Average, if, count, max, min, proper, upper, lower, Using Auto Sum – Advance Formula Concatenate – Vlookup-Hlookup-Match-countif-extrim-spreadsheets-charts-creating charts-Different Types of charts – Formatting chart objects changing the chart type-howing and hiding the legend – showing and Hiding the Data table.





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Unit – V

Data Analysis

Sorting, Filter, Text to column, Data validation – Pivot Table Tool bar – Changing data Field – Properties – Displaying a pivot chart – Setting pivot Table options – Adding sub-Totals – Tom – Pivot tables.

Course Outcome:

- To gain additional knowledge in spreadsheet for implementing project work.



Course Co-ordinator


IQAC Co-ordinator


HoD/MBA


Principal




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DEPARTMENT OF MANAGEMENT STUDIES CERTIFICATE PROGRAM (II Year – III Sem) STUDENT LIST

Name of the Course: Data Analysis and Data Presentation

Course Code: K16A601

Course Co-Ordinator: Mr.D.David Baburaj

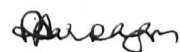
Total Hours: 30 Hours

S.No	Reg.No	Name List
1	711615631001	AJAY KUMAR P
2	711615631002	ANAND P
3	711615631005	ARUNKUMAR P
4	711615631008	DHIBISH R
5	711615631012	GOPALSAMY P
6	711615631015	KARTHI A
7	711615631017	LEELAKRISHNAN S
8	711615631018	LIYAKATHALI S
9	711615631021	MANIKANDAN R
10	711615631024	MUMTAJ S
11	711615631025	MUNIASAMY L
12	711615631028	NITHYA R
13	711615631029	NITHYA T
14	711615631030	PRABAKARAN M
15	711615631032	RAHUL RAJ R
16	711615631037	SANGEETHA R T
17	711615631039	SARAVANAN S (27-05-1993)
18	711615631040	SARAVANAN S (03-02-1995)
19	711615631041	SASIKUMAR V
20	711615631054	YAMUNA BHARATHI R


Course Co-ordinator




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DEPARTMENT OF MANAGEMENT STUDIES CERTIFICATE PROGRAM (II YEAR – III SEMESTER) COURSE DELIVERY

Name of the Course: Data Analysis and Data Presentation

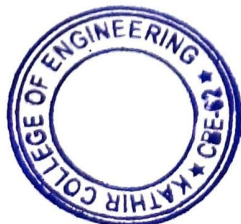
Course Code: K16A601

Course Co-Ordinator: Mr.D.David Baburaj

Total Hours: 30 Hours

S.No	Topics to be covered	Hours	Date Of Delivery
1	About Excel and Microsoft, uses of excel software	6	11.10.2016
2	Spreadsheet window pane –Title Bar – Menu bar – Standard tool Bar – Formatting tool Bar – the Ribbon		
3	The Ribbon – File tab and backstage view – Formula Bar – Workbook window – Status Bar Task Pane – Workbook and Sheets.		
4	Selecting columns and rows – Changing Column width and row height – Auto fitting columns and rows		
5	Hiding unhiding columns & Rows		
6	Inserting deleting columns and rows – cell – Address of cell-components of a cell		
7	Inserting deleting columns and rows – cell – Address of cell-components of a cell	6	12.10.2016
8	Address of cell-components of a cell-Format-value-Formula-Use of paste and paste special:		
9	Format-value-Formula-Use of paste and paste special.		

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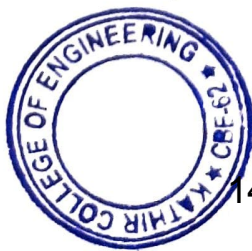
S.No	Topics to be covered	Hours	Date Of Delivery
10	Using rangers selecting rangers – Entering information into a range – Using auto fill.	6	13.10.2016
11	Using Formulas Formula Function – Sum – Average, if, count, max, min, proper, upper, lower, Using Auto Sum		
12	Advance Formula Concatenate – Vlookup-Hlookup-Match-countif-extrim-spreadsheets-charts-creating charts		
13	Different Types of charts – Formatting chart objects changing the chart type-		
14	Howing and hiding the legend – showing and Hiding the Data table.	6	14.10.2016
15	Sorting. Filter. Text to column, Data validation		
16	Pivot Table Tool bar – Changing data Field		
17	Properties – Displaying a pivot chart	6	15.10.2016
18	Setting pivot Table options – Adding sub-Totals		
19	Tom – Pivot tables		

Denny
Course Co-ordinator

Dasgupta
HoD/MBA

Dasgupta

Dasgupta
Principal



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RESOURCE PERSON DETAILS

Title of the Program	Data Analysis and Data presentation
Course Code	K16A601
Duration and Timing of the Program	60 Hrs, 9.00 AM to 4.00 PM
Name Of the Resource person	Dr. G.B. Sabari Rajan
Photo of the resource person	
Designation	AP/MBA Dep, INFO INSTITUTE OF ENGINEERING, CBE.
Educational qualification	M.Com., MBA., M.Phil., Ph.D

Denny
Course Co-ordinator

Rajam
HoD/MBA

Rajam
Principal

Rajam

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DEPARTMENT OF MANAGEMENT STUDIES CERTIFICATE PROGRAM (II Year – III Sem)

ATTENDANCE SHEET

Name of the Course: Data Analysis and Data Presentation

Course Code: K16A601

Course Co-Ordinator: Mr.D.David Baburaj

Total Hours: 30 Hours

S.NO	NAME	11.10.2016	12.10.2016	13.10.2016	14.10.2016	15.10.2016	Signature
1	AJAY KUMAR P	P	A	P	P	P	Ajay
2	ANAND P	P	P	P	P	P	Anand
3	ARUNKUMAR P	P	P	P	P	P	Arunkumar
4	DHIBISH R	A	P	P	P	P	Dhibish
5	GOPALSAMY P	P	P	P	A	P	Gopalsamy
6	KARTHI A	A	P	P	P	A	Karthi
7	LEELAKRISHNAN S	P	P	A	P	A	Leelakrishnan
8	LIYAKATHALI S	P	P	P	P	P	Liyakathali
9	MANIKANDAN R	P	P	P	P	P	Manikandan
10	MUMTAJ S	P	P	A	P	P	Mumtaj
11	MUNIASAMY L	P	P	P	P	P	Muniasamy
12	NITHYA R	P	P	P	A	P	Nithya
13	NITHYA T	P	A	P	P	P	Nithya
14	PRABAKARAN M	P	A	A	A	P	Prabakaran
15	RAHUL RAJ R	P	P	P	A	P	Rahul Raj
16	SANGEETHA R T	P	P	A	P	P	Sangeetha
17	SARAVANAN S (27-05-1993)	A	P	P	P	P	Saravanan
18	SARAVANAN S (03-02-1995)	P	P	P	P	P	Saravanan
19	SASIKUMAR V	P	P	P	P	P	Sasikumar
20	YAMUNA BHARATHI R	P	P	P	A	P	Yamuna

David Baburaj
Course Co-ordinator



[Signature]
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NEELAMBUR,
COIMBATORE-62.

[Signature]
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DEPARTMENT OF MANAGEMENT STUDIES CERTIFICATE PROGRAM (II Year – III Sem)

One Page Report

Name of the Course: Data Analysis and Data Presentation	Course Code: K16A601
Course Co-Ordinator: Mr.D.David Baburaj	Total Hours: 30 Hours

Introduction to Excel uses of excel software-spreadsheet all menus and bars were clearly understood which make the user to do data manipulation and analysis. Selecting columns and rows – Auto fitting columns and rows – hiding unhiding columns & Rows – components of a cell-Format-Name-Formula-Use of paste and paste special. Using rangers selecting rangers – Entering information into a range – Using auto fill. Using Formulas Formula Function – Sum – Average. If, count, max, min, proper, upper, lower, Using Auto Sum.

Advance Formula *Concatenate *Vlookup-Hlookup-Match-countif-extrim-spreadsheets-charts-creating charts-Different Types of charts, Formatting chart objects changing the chart type showing and Hiding the Data table.

Sorting, Filter, Text to column, Data validation – Pivot Table Tool bar – Changing data Field – Properties – Displaying a pivot chart – Setting pivot Table options – Adding sub-Totals – Tom – Pivot tables. Overall the program covered all the syllabus and the topics discussed is excellent.

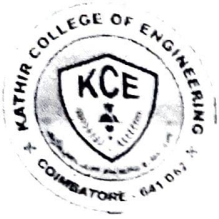
David
Course Co-ordinator

Principals
HoD/MBA

Principals
Principal



Principals
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COIMBATORE-62.



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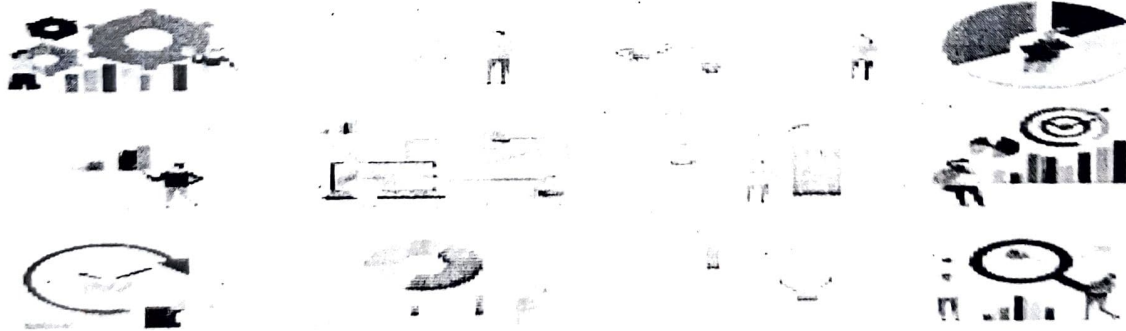
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ADD ON COURSE

DATA ANALYSIS AND DATA PRESENTATION

11/10/2016 - 15/10/2016



TIME : 9.00 AM - 4.00 PM

RESOURCE PERSON : DR.G.B SABARWALA, M.Com.,MBA.,Ph.D

Assistant Prof., MBA Department,

INFO INSTITUTE OF ENGINEERING, CBE.



KATHIR COLLEGE OF ENGINEERING
WISDOM TREE, AVINASHI ROAD, NEELAMBUR, COIMBATORE - 62
TAMIL NADU, INDIA
DEPARTMENT OF MANAGEMENT STUDIES

CERTIFICATE OF COMPLETION

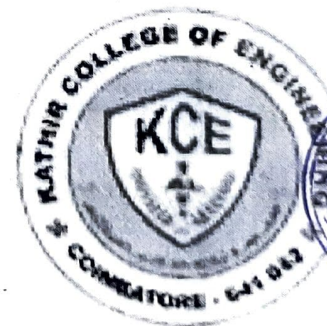
This certificate is presented to

Rahul Raj R

This certificate is awarded for completing certificate program on
"Data Analysis and Data Presentation" from 11-10-2016 to 15-10-
2016 at Kathir College of Engineering

Damj

Convenor



[Handwritten signature]

Principal